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L1	41	SEA	FILE=CAPLUS	ABB=ON PLU=ON	TSENG C P/AU OR TSENG CHI P?/AU
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L26	26	SEA	FILE=CAPLUS	ABB=ON PLU=ON	L1 AND HERBICID?
L27	29	SEA	FILE=CAPLUS	ABB=ON PLU=ON	L24 OR L26

=> d ibib ed ab l27 1-29

L27 ANSWER 1 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:844866 CAPLUS Full-text
DOCUMENT NUMBER: 145:271812
TITLE: Preparation of **fungicidal** pyrazine derivatives
INVENTOR(S): Bereznak, James, Francis; Sharpe, Paula, Louise; Sheth, Ritesh, Bharat; Stevenson, Thomas, Martin; Taggi, Andrew, Edmund; **Tseng, Chi-Ping**; Zhang, Wenming
PATENT ASSIGNEE(S): E.I. Dupont De Nemours and Company, USA
SOURCE: PCT Int. Appl., 144pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006089060	A1	20060824	WO 2006-US5528	20060214

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,

MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2005-653190P P 20050215
OTHER SOURCE(S): MARPAT 145:271812
ED Entered STN: 24 Aug 2006
AB The title compds. I [R1 = NR4R5, N:CR19R21, OR6, G1 or G2; or alkyl, alkenyl, etc. (wherein R4, R5 = H, alkyl, cycloalkyl, etc.; R6 = H, alkyl, cycloalkyl, etc.; R19, R21 = H, alkyl, haloalkyl or cycloalkyl or R19 and R21 are taken together as (CH2)4, (CH2)5, CH2CH2OCH2CH2, CH2CH(Me)OCH(Me)CH2; G1 = 3-7 membered nonarom. carbocyclic or heterocyclic ring; G2 = Ph, 5-6 membered heteroarom. ring); A = O, S or NR7 (R7 = H, alkyl, haloalkyl, etc.); R2 = cyano, 5-6 membered heteroarom. ring, 8-10 membered heteroarom. bicyclic ring, etc.; R3 = H, halo, cyano, alkyl, etc.; J = alkyl, cycloalkyl, Ph, etc.; and their N -oxides and agriculturally suitable salts], useful as **fungicides**, were prepared E.g., a 3-step synthesis of 5-chloro-6-(2,6-difluorophenyl)-1-(2-methylpropyl)-3-(1H-pyrazol-1-yl)-2(1H)-pyrazinone, starting from isobutylamine and 2,6-difluorobenzaldehyde, was given. Exemplified compds. I were tested in various tests (data given). Also disclosed are compns. containing the compds. I and a method for controlling plant diseases caused by fungal plant pathogens which involves applying an effective amount of a compound I.
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1329784 CAPLUS Full-text
DOCUMENT NUMBER: 144:46617
TITLE: **Fungicidal** mixtures of amidinylphenyl compounds
INVENTOR(S): Klapproth, Michael Caldwell; **Tseng, Chi-Ping**
PATENT ASSIGNEE(S): E.I. Dupont de Nemours and Company, USA
SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005120234	A2	20051222	WO 2005-US19376	20050601
WO 2005120234	A3	20061005		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2005251750	A1	20051222	AU 2005-251750	20050601
CA 2564813	A1	20051222	CA 2005-2564813	20050601
EP 1750508	A2	20070214	EP 2005-757307	20050601

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU

PRIORITY APPLN. INFO.: US 2004-576780P P 20040603
WO 2005-US19376 W 20050601

OTHER SOURCE(S): MARPAT 144:46617
ED Entered STN: 22 Dec 2005
AB Disclosed are **fungicidal** mixts. comprising phenylamidines (a) I [R1 = alkyl; R2 = alkyl or cyclopropyl; R3 H, alkyl or halo; R4 = alkyl, haloalkyl, methoxy, etc.; A = (methyl)alkylene; W= CR5R6R7or SiR8R9R10; R5 = H or (halo)alkyl; R6-10 = (halo)alkyl], I N-oxides or I salts and (b) at least one compound selected from alkylenebis(dithiocarbamate) **fungicides**, compds. acting at the bc1 complex of the fungal mitochondrial respiratory electron transfer site, cymoxanil, compds. acting at the demethylase enzyme of the sterol biosynthesis pathway, morpholine and piperidine compds. that act on the sterol biosynthesis pathway, phenylamide **fungicides**, pyrimidinone **fungicides** , chlorothalonil, carboxamides acting at complex II of the fungal mitochondrial respiratory electron transfer site, quinoxyfen, metrafenone, cyflufenamid, cyprodinil, copper compds., phthalimide **fungicides** , fosetyl-aluminum, benzimidazole **fungicides**, cyazofamid, fluazinam, iprovalicarb, propamocarb, validamycin, dichlorophenyl dicarboximide **fungicides**, zoxamide and dimethomorph, and their salts.

L27 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:892742 CAPLUS Full-text
DOCUMENT NUMBER: 139:381249
TITLE: Preparation of amidinylphenyl compounds and their use as **fungicides**
INVENTOR(S): **Tseng, Chi-Ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003093224	A1	20031113	WO 2003-US13371	20030430

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003241327	A1	20031117	AU 2003-241327	20030430
EP 1501789	A1	20050202	EP 2003-731059	20030430

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

BR 2003009599	A	20050301	BR 2003-9599	20030430
CN 1649833	A	20050803	CN 2003-809514	20030430

JP 2005524706	T	20050818	JP 2004-501364	20030430
US 2005182025	A1	20050818	US 2003-510083	20030430
PRIORITY APPLN. INFO.:			US 2002-380095P	P 20020503
			WO 2003-US13371	W 20030430

OTHER SOURCE(S): MARPAT 139:381249
ED Entered STN: 14 Nov 2003
AB The title compds. [I; R1 = H, OH, SH, SO3H, CN, etc.; R2 = H, CN, alkyl, carbocyclyl, etc.; R3 = H, alkyl, alkenyl, etc.; or NR2R3 = (un)substituted 3-7 membered heterocyclyl containing one or two addnl. heteroatoms; R4, R5 = alkyl, alkenyl, haloalkyl, etc.; R6 = C5-C21 alkyl, C5-C21 alkenyl, C5-C21 alkynyl, C4-C9 alkoxycarbonyl, C4-C6 alkylaminocarbonyl, C3-C10 dialkylaminocarbonyl or C3-C12 trialkylsilyl, each optionally substituted; or R6 = C1-C4 alkyl or C2-C9 alkylcarbonyl, each substituted with one or more R12; A = a direct bond, O, SOn, or NR10; n = 0-2; m = 0-3; R10 = H, alkyl, alkenyl, etc.; R12 = CO2H, CONH2, NO2, etc.], useful for controlling plant diseases caused by fungal plant pathogens, were prepared Thus, treating N'-(4-hydroxy-2,5-dimethylphenyl)- N,N-dimethylmethanimidamide with NaH in THF followed by addition of 4-bromo-2-methyl-2-butene afforded II which showed 100% control of Puccinia recondita (the causal agent of wheat leaf rust) at 500 g/ha.
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 4 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:428901 CAPLUS Full-text
DOCUMENT NUMBER: 137:20373
TITLE: Preparation of **herbicidal** heterocycles
INVENTOR(S): Cotterman, Clifford Daniel; **Tseng, Chi-Ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044173	A2	20020606	WO 2001-US43357	20011120
WO 2002044173	A3	20021010		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 200225656	A	20020611	AU 2002-25656	20011120
EP 1337531	A2	20030827	EP 2001-995145	20011120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001016106	A	20030923	BR 2001-16106	20011120
CN 1496365	A	20040512	CN 2001-819900	20011120
JP 2004514720	T	20040520	JP 2002-546543	20011120
NZ 525970	A	20050225	NZ 2001-525970	20011120
ZA 2003004021	A	20040917	ZA 2003-4021	20030523
US 2004106520	A1	20040603	US 2003-432964	20030528
US 7138361	B2	20061121		

IN 2003DN00851	A	20070316	IN 2003-DN851	20030602
US 2006229205	A1	20061012	US 2006-443673	20060531
PRIORITY APPLN. INFO.:			US 2000-250678P	P 20001201
			US 2001-273469P	P 20010305
			US 2001-284616P	P 20010418
			WO 2001-US43357	W 20011120
			US 2003-432964	A3 20030528

OTHER SOURCE(S): MARPAT 137:20373
ED Entered STN: 07 Jun 2002
AB The title compds. [I; A = (un)substituted aryl, heteroarom. ring; Y = O, S; Z = O, SOn, CR3R4; W = (CR3R4)q; R1 = H, alkyl, haloalkyl, etc.; R2a = H, alkyl, haloalkyl; and R2a only exists when the carbon atom to which it is connected is a quaternary carbon center in which case the dotted line, together with the parallel solid line, represents a single bond; R2b = H, alkyl, haloalkyl, etc.; R1 and R2b are taken together as CR3R4CH2CH2, CR3R4(CH2)3, (CH2)mO(CH2)t; R3, R4 = H, alkyl, haloalkyl; n = 0-2; q = 1-2; m = 0-2; t = 0-2; m + t = 2-3], useful for controlling undesired vegetation (biol. data given), were prepared Thus, reacting 5-hydroxy-3-(3-trifluoromethylphenyl)-4-thiazolidinone with 3-(1,1-dimethylethyl)-1H-pyrazole in the presence of di-Et azodicarboxylate and triphenylphosphine in THF afforded II.

L27 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:513682 CAPLUS Full-text
DOCUMENT NUMBER: 133:135313
TITLE: Preparation of **herbicidal** oxadiazolidinediones
INVENTOR(S): Annis, Gary David; Chiang, George Chih-Shu; Forney, David Raymond; Patel, Kanu Maganbhai; Rorer, Morris Padgett; Smith, William Francis, III; Stevenson, Thomas Martin; Sun, King-Mo; **Tseng, Chi-Ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 394 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000043377	A1	20000727	WO 2000-US1283	20000120
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2359108	A1	20000727	CA 2000-2359108	20000120
EP 1147096	A1	20011024	EP 2000-913237	20000120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 776425	B2	20040909	AU 2000-34717	20000120
US 6737383	B1	20040518	US 2001-869771	20010629
US 2004063581	A1	20040401	US 2003-634706	20030804
PRIORITY APPLN. INFO.:			US 1999-117210P	P 19990125
			US 1999-138722P	P 19990611
			US 1999-143620P	P 19990713
			US 1999-156362P	P 19990928

	WO 2000-US1283	W 20000120
	US 2001-869771	A3 20010629

OTHER SOURCE(S): MARPAT 133:135313
ED Entered STN: 28 Jul 2000
AB The title compds. (I) [Q = H, heterocyclyl, (thio)acyl, (thio)carboxy, carbamoyl, alkoxy, amino, sulfamoyl, (un)substituted (cyclo)alkyl, bicycloalkyl, (cyclo)alkenyl, bicycloalkenyl, alkynyl, Ph, or bicycloaryl, etc.; R1 = (un)substituted (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy(alkyl), cycloalkyl, Ph, heterocyclyl, etc.; R2 = (halo)alkyl, cycloalkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy(alkyl), amino, etc.; or R1 and R2 taken together = (CH2)n or (CH2)2O(CH2)2; R6 and R7 = independently H or alkyl; X1 and X2 = independently O or S; X3 = O, S, NH, or N(alkyl); n = 2-5; q = 0-2], their N-oxides, and agriculturally suitable salts were prepared as **herbicides**. I and compns. containing I were tested extensively for their ability to control undesired vegetation. Thus, II was prepared in a multi-step sequence by reaction of 2,4-dichlorophenylisocyanate with NH2OH•HCl to form the N-hydroxylurea, cycloaddn. with carbonyl diimidazole to give the 1,2,4-oxadiazolidine-3,5-dione, and N-addition of (4-fluorophenyl)propylcarbamoyl chloride (2-step preparation given) in the presence of 4-dimethylaminopyridine. At 125 g/ha in preemergence and postemergence tests, II exhibited 100% control of bedstraw, black grass, morning glory, nutsedge, redroot pigweed, velvet leaf, and other weeds.
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 6 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:721692 CAPLUS Full-text
DOCUMENT NUMBER: 129:316221
TITLE: Preparation of pyrazolylcarbonylbenzothiopyran dioxides as **herbicides**.
INVENTOR(S): **Tseng, Chi-ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9849159	A1	19981105	WO 1998-US7978	19980421
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
IN 1998CA00471	A	20051209	IN 1998-CA471	19980320
CA 2281904	A1	19981105	CA 1998-2281904	19980421
AU 9869776	A	19981124	AU 1998-69776	19980421
EP 977752	A1	20000209	EP 1998-915643	19980421
R: DE, FR, IT				

PRIORITY APPLN. INFO.:	US 1997-44875P	P 19970425
	US 1997-52682P	P 19970716
	WO 1998-US7978	W 19980421

OTHER SOURCE(S): MARPAT 129:316221
ED Entered STN: 13 Nov 1998

AB Title compds. [I; A = O2C, OCO2, OCOS; Q = (halo)alkyl, alkoxyalkyl, alkenyl, cycloalkyl, (substituted) Ph, PhCH2, pyridyl, furyl, thienyl; AQ = O2CNR6R7; R1 = alkyl; R2, R3 = H, alkyl, halo; R4R5 = OCH2CH2O, CO; R6 = alkyl, alkenyl, (substituted) Ph; R7 = alkyl, alkenyl; R6R7 = (CH2)4, (CH2)5, CH2CH2OCH2CH2; with provisos], were prepared Thus, 2,3-dihydro-5,8-dimethylspiro[4H-1-benzothiopyran-4,2'-[1,3]-dioxolane]-6- carboxylic acid 1,1-dioxide (preparation given) was refluxed with (COCl)2 and catalytic DMF in CH2Cl2 to give a residue which was stirred overnight with 1-ethyl-1H-pyrazol-5-ol and Et3N in CH2Cl2 to give 1-ethyl-1H-pyrazol-5-yl 2,3-dihydro-5,8-dimethylspiro[4H-1-benzothiopyran-4,2'-[1,3]-dioxolane]-6- carboxylate 1,1-dioxide. This was treated with acetone cyanohydrin and Et3N in MeCN and the product was treated with Me2CHO2CCl to give I (A = O2CO; Q = CHMe2; R4R5 = OCH2CH2O; R2, R3 = Me). The latter at 50 g/ha postemergent gave 100% control of chickweed.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:568817 CAPLUS Full-text
DOCUMENT NUMBER: 129:175555
TITLE: Preparation of benzothiopyranone dioxide hydrazones and related compounds as **herbicides**.
INVENTOR(S): **Tseng, Chi-Ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9835954	A1	19980820	WO 1998-US2168	19980205
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9862678	A	19980908	AU 1998-62678	19980205
EP 973764	A1	20000126	EP 1998-904923	19980205
R: DE, FR, GB, IT				

PRIORITY APPLN. INFO.: US 1997-38735P P 19970214
WO 1998-US2168 W 19980205
OTHER SOURCE(S): MARPAT 129:175555
ED Entered STN: 07 Sep 1998
AB Title compds. [I; Q = substituted pyrazolyl, isoxazolyl, oxocycloalkenyl, etc.; Q1 = (CH2)m; R1 = alkyl, haloalkyl, alkoxy, haloalkoxy, halo, cyano, NO2, aminosulfonyl, etc.; X = O, S, SO, SO2, imino, (substituted) CH2; R2 = amino, (substituted) 5-membered N-heteroaryl, 5-6 membered N-heterocyclyl; R3 = alkyl; m = 0-2; p = 0-4; q = 0-3], were prepared Thus, title compound (II) (preparation starting from 2,5-dimethylthiophenol and 3-bromopropionic acid given) at 50 g/ha postemergent gave 100% control of cocklebur.
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:479522 CAPLUS Full-text

DOCUMENT NUMBER: 129:95400
TITLE: Substituted benzothiopyran salts and their use as **herbicides**
INVENTOR(S): **Tseng, Chi-ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 91 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9828291	A1	19980702	WO 1997-US23469	19971217
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
IN 1997CA02192	A	20050311	IN 1997-CA2192	19971120
CA 2270245	A1	19980702	CA 1997-2270245	19971217
AU 9856128	A	19980717	AU 1998-56128	19971217
ZA 9711326	A	19990617	ZA 1997-11326	19971217
EP 946540	A1	19991006	EP 1997-952543	19971217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
CN 1240440	A	20000105	CN 1997-180557	19971217
NO 9902629	A	19990601	NO 1999-2629	19990601

PRIORITY APPLN. INFO.: US 1996-33895P P 19961220
US 1997-58647P P 19970911
WO 1997-US23469 W 19971217

OTHER SOURCE(S): MARPAT 129:95400
ED Entered STN: 03 Aug 1998
AB The title compds. I [Q = Q1, Q2; M = Li, Na, K, Ca, Mg, Co, Ni, Cu, Zn, tetrasubstituted N; x = 1, 2; R1R2C = CO; R1R2 = OCH2CH2O; R3 = Me; R4, R5 = H, alkyl, halo; R6 = alkyl; R7 = alkyl], useful as **herbicides**, were prepared E.g., (2,3-dihydro-5,8-dimethylspiro[4H-1-benzothiopyran-4,2'- [1,3]dioxolan]-6-yl)(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)methanone S,S-dioxide monopotassium salt was prepared I are active preemergent and postemergent **herbicides** or plant growth regulants.
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:1458 CAPLUS Full-text
DOCUMENT NUMBER: 128:61512
TITLE: Preparation of **herbicidal** pyridinyl and pyrazolylphenyl ketones
INVENTOR(S): Patel, Kanu Maganbhai; Rorer, Morris Padgett; **Tseng, Chi-Ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 165 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9746530	A1	19971211	WO 1997-US9569		19970602
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU					
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
IN 1997CA00623	A	20050311	IN 1997-CA623		19970409
CA 2257196	A1	19971211	CA 1997-2257196		19970602
AU 9732973	A	19980105	AU 1997-32973		19970602
EP 922032	A1	19990616	EP 1997-928809		19970602
R: DE, FR, IT					
ZA 9704916	A	19990126	ZA 1997-4916		19970604
PRIORITY APPLN. INFO.:			US 1996-19352P	P	19960606
			US 1996-33633P	P	19961220
			WO 1997-US9569	W	19970602

OTHER SOURCE(S): MARPAT 128:61512
ED Entered STN: 02 Jan 1998
AB The title compds. [I; Q = II-IV, R10C(O)CHR11; A = 5-10 membered monocyclic or fused bicyclic ring system; R1 = H, C1-6 alkyl, halo, etc.; W = N, CH; R3 = SH, C1-6 alkylthio, phenylthio, etc.; R4 = C1-3 alkyl, C1-3 alkoxy, C1-3 alkylthio, halo; R5 = SH, C1-6 alkylthio, phenylthio, etc.; R6 = H, C1-6 alkyl, C1-6 haloalkyl, etc.; R7 = H, C1-6 alkyl, C1-6 haloalkyl, etc.; R8 = H, C1-6 alkyl, C1-6 haloalkyl, etc.; R9 = H, C2-6 alkoxycarbonyl, CN, etc.; R10 = C1-6 alkyl, C1-6 haloalkyl, (un)substituted C3-6 cycloalkyl; R11 = CN, C2-6 alkoxycarbonyl, C2-6 alkylcarbonyl, etc.; m = 0-3; p = 0-4] and their (N)-oxides and agriculturally suitable salts, useful for controlling undesired vegetation, were prepared Thus, treatment of 2,5-dimethyl-3-(1-methyl-1H-pyrazol-3-yl)-4-(methylsulfonyl)benzoic acid with oxalyl chloride and DMF in CH2Cl2 followed by reaction of the acid chloride with 1,3-cyclohexanedione in the presence of Et3N in CH2Cl2, and treatment of the resulting 3-oxo-1-cyclohexen-1-yl 2,5-dimethyl-3-(1-methyl-1H-pyrazol- 3-yl)-4-(methylsulfonyl)benzoate with acetone cyanohydrin and Et3N in MeCN afforded the title compound V which showed complete control against, e.g., redroot pigweed and speedwell in postemergence tests.

L27 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:450139 CAPLUS Full-text
DOCUMENT NUMBER: 127:81444
TITLE: Preparation of [1]benzothiopyrano[4,3-c]pyrazole ketones and analogs as **herbicides**
INVENTOR(S): **Tseng, Chi-Ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 262 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9719087	A1	19970529	WO 1996-US18381	19961113
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN				

RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

IN	1996CA01954	A	20050304	IN 1996-CA1954	19961111
AU	9712725	A	19970611	AU 1997-12725	19961113
EP	876375	A1	19981111	EP 1996-943496	19961113
	R: DE, FR, IT				
BR	9611731	A	19990223	BR 1996-11731	19961113
ZA	9609610	A	19980515	ZA 1996-9610	19961115
US	5985799	A	19991116	US 1998-68485	19980512
PRIORITY APPLN. INFO.:				US 1995-6876P P	19951117
				WO 1996-US18381 W	19961113

OTHER SOURCE(S): MARPAT 127:81444
ED Entered STN: 19 Jul 1997
AB Title compds. [I; R = (un)substituted 2,6-dioxocyclohexyl, -5-hydroxypyrazol-4-yl, etc.; R1,R2 = H, halo, alkyl, alkoxy, etc.; R3 = 1 or 2 H or alkyl; R4R5 = atoms to complete an (un)substituted benzene or -heteroarom. ring; X = O, SO0-2, CH2, alkylimino, etc.; Z = bond, CH2, CH2CH2; dashed line indicates, e.g., optional bond] were prepared Thus, 2,5-Me2C6H3SH was etherified by ClCH2CH2CO2H and the product converted in 3 steps to 6-bromo-3-dimethylaminomethylene-2,3-dihydro-5,8-dimethyl-4H-1- benzothiopyran-4-one which was cyclocondensed with MeNHNH2 and the carboxylated and oxidized product esterified by 1,3-cyclohexanedione to give, after rearrangement, title compound II. Data for biol. activity of I were given.

L27 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:342737 CAPLUS Full-text
DOCUMENT NUMBER: 127:14452
TITLE: Preparation of **herbicidal** thiophene ketones
INVENTOR(S): **Tseng, Chi-ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: U.S., \\9\21 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5631210	A	19970520	US 1996-665166	19960614
PRIORITY APPLN. INFO.:			US 1996-665166	19960614

OTHER SOURCE(S): MARPAT 127:14452
ED Entered STN: 31 May 1997
AB The thiophene ketones I [Q = Q1 or Q2; R1 = H, OH, (halo)alkyl, (halo)alkoxy, etc.; R2 = H, halo, CN, NO2, (halo)alkyl, etc.; R3 = halo, (halo)alkylthio, (halo)alkylsulfinyl, etc.; R4 = halo, alkyl, alkoxy, etc.; R5 = H, (halo)alkyl, formyl, etc.; R6 = H, (halo)alkyl, (un)substituted Ph or benzyl, etc.; R7 = H, (halo)alkyl, halo, CN or NO2; m = 1,2; n = 0,1,2; p, q = n,3,4] are prepared as **herbicides**.

L27 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:181138 CAPLUS Full-text
DOCUMENT NUMBER: 126:171482
TITLE: Preparation of cycloalkyl- and heterocyclylcarbonylbenzothiopyrans and analogs as **herbicides**
INVENTOR(S): **Tseng, Chi-Ping**

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 135 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9701550	A1	19970116	WO 1996-US10623		19960619
W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN					
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
CA 2225248	A1	19970116	CA 1996-2225248		19960619
AU 9663365	A	19970130	AU 1996-63365		19960619
AU 695030	B2	19980806			
EP 836600	A1	19980422	EP 1996-922514		19960619
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI					
CN 1189161	A	19980729	CN 1996-195056		19960619
HU 9802204	A2	19990128	HU 1998-2204		19960619
BR 9609502	A	19990525	BR 1996-9502		19960619
JP 11509192	T	19990817	JP 1996-504474		19960619
IN 1996CA01170	A	20050304	IN 1996-CA1170		19960624
ZA 9605522	A	19971229	ZA 1996-5522		19960628
NO 9706073	A	19980227	NO 1997-6073		19971223
US 5952266	A	19990914	US 1997-983596		19971229
PRIORITY APPLN. INFO.:			US 1995-668P	P	19950629
			US 1996-12991P	P	19960307
			WO 1996-US10623	W	19960619

OTHER SOURCE(S): MARPAT 126:171482
ED Entered STN: 19 Mar 1997
AB Title compds. [I; R = (hetero)cyclic groups Q1, Q2, etc.; R1,R2 = (halo)alkoxy, (halo)alkylthio, etc.; R1R2 = atoms to form a heterocyclic ring; R3 = H or Me; R4,R5 = H, halo, alkyl, alkoxy, etc.; R6 = OH, alkoxy, alkylthio, etc.; R8 = H, alkyl, alkanoyl, etc.; R9 = H, alkyl, CH2Ph, etc.; R10 = H, halo, (halo)alkyl, etc.; Z = O, SO0-2, (alkyl)imino, etc.; m,p,k = 0-2; m+k = 0-2] were prepared Thus, 4-BrC6H4SH was etherified by BrCH2CH2CO2H and the product cyclized to give, after ketalization, carboxylation, and oxidation, benzothiopyran II (R = OH). The latter was esterified by cyclohexane-1,3-dione to give II (R = 3-oxo-1-cyclohexenyl) which was treated with Me2C(OH)CN to give II (R = Q1, R6 = OH). Data for biol. activity of I were given.

L27 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:713002 CAPLUS Full-text
DOCUMENT NUMBER: 125:328721
TITLE: Preparation of **herbicidal** heteroaryl-substituted anilides
INVENTOR(S): Petersen, Wallace Christian; Pifferitti, Michael Anthony; Stevenson, Thomas Martin; **Tseng, Chi-Ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 178 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9631517	A1	19961010	WO 1996-US3803	19960320
W: AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9654262	A	19961023	AU 1996-54262	19960320
PRIORITY APPLN. INFO.:			US 1995-416415 A2	19950404
			WO 1996-US3803 W	19960320

OTHER SOURCE(S): MARPAT 125:328721
ED Entered STN: 05 Dec 1996
AB The title compds. [I; Q = II, III, IV; T = O, S; X = a single bond, O, S, (un)substituted NH; Y = O, S, CH:CH, etc.; Z, W = CH, N; V = CH, CMe, N; R1 = C1-5 alkyl, CH2(C3-4 cycloalkyl), C3-6 cycloalkyl, etc.; R2, R3 = H, halo, C1-2 alkyl, etc.; R4 = C1-4 haloalkyl, C1-4 haloalkoxy, CN, etc.; n = 0-1] and their oxides, and agriculturally-suitable salts which are useful for controlling undesired vegetation, were prepared Thus, treatment of 5-(trifluoromethyl)-4H-1,2,4-triazole-3(2H)-thione with Na in MeOH followed by addition of 1-(2-amino-5-methylphenyl)-2-chloroethanone, cyclization of the resulting intermediate V with concentrated H2SO4 and reaction of benzamine VI with Me2CHCH2COCl in the presence of Et3N in Et2O afforded I [Q = II; T = O; X = a single bond; Y = S; Z, W = N; R1 = Me2CHCH2; R2 = Me; R3 = H; R4 = CF3] which showed 100% control in preemergence tests carried out on bedstraw, crabgrass, giant foxtail.

L27 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:314049 CAPLUS Full-text
DOCUMENT NUMBER: 125:58525
TITLE: **Herbicidal** triazolecarboxamides.
INVENTOR(S): **Tseng, Chi Ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: U.S., 100 pp., Cont.-in-part of U.S. Ser. No. 784,343, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5510320	A	19960423	US 1994-211721	19940426
WO 9309100	A1	19930513	WO 1992-US8822	19921022
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1991-784343 B2	19911029
			WO 1992-US8822 W	19921022

OTHER SOURCE(S): MARPAT 125:58525
ED Entered STN: 30 May 1996

AB Triazolecarboxamides I [A = (un)substituted 5-membered heterocycle containing 1-3 heteroatoms selected from 0-3 N, 0-1 O, and 0-1 S; R1 = H, (alkoxy- or halo)alkyl, cycloalkyl, (halo)alkenyl, alkynyl, alkoxy; R2 = (alkoxy- or halo)alkyl, cycloalkyl, (halo)alkenyl, alkynyl; n = 0-2, and 2 when S atom is bound to N] are useful as agricultural chems. In particular, the compds. are useful as **herbicides**, both general and selective, both post-emergent and pre-emergent. Examples of selective activity include excellent control of blackgrass and wild oats with outstanding wheat tolerance, and control of crabgrass, giant foxtail, barnyardgrass and blackgrass with outstanding tolerance to corn, soybeans, rice, cotton, wheat, sugarbeets and rape. For example, 1,2,4-triazole-3-thiol was thioetherified with 3-chloro-2,4-pentanedione, followed by cyclization of the resultant dione with ethylhydrazine (as oxalate), N-acylation of the triazole N with Et2NCOCl, and S-oxidation of the thioether with m-ClC6H4C(O)OOH, to give title compound II. At 62 g/ha pre-emergence, II gave complete control of crabgrass and fall panicum without damage to cotton or soybean. Examples include approx. 85 compds. I and approx. 25 intermediates, with characterizing data, 4 formulations, and **herbicidal** screenings against multiple plants, at various rates and under a variety of conditions.

L27 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:773000 CAPLUS Full-text
DOCUMENT NUMBER: 123:191221
TITLE: Preparation of substituted pyridine **herbicides**
.
INVENTOR(S): Drumm, Joseph E.; Lett, Renee M.; Rayner, Dennis R.; Rorer, Morris P.; **Tseng, Chi-Ping**
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 74 pp. Cont.-in-part of U.S. Ser. No. 731, 909, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5438033	A	19950801	US 1993-150193	19931209
WO 9222203	A1	19921223	WO 1992-US4644	19920609
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 1991-713909 B2 19910612
WO 1992-US4644 W 19920609
OTHER SOURCE(S): MARPAT 123:191221
ED Entered STN: 02 Sep 1995
AB The pyridine derivs. I [R1 = Cl, Br, iodo, OMe, OCHF2, OCF3; R2 = CN, CO2H, CHO, etc.; R3 = alkyl, alkoxy, (un)substituted Ph, etc.] are prepared as **herbicides**. The invention also pertains to mixts. of I with known **herbicides**, such as butachlor.

L27 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:649954 CAPLUS Full-text
DOCUMENT NUMBER: 119:249954
TITLE: **Herbicidal** triazolecarboxamides
INVENTOR(S): **Tseng, Chi Ping**

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 237 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9309100	A1	19930513	WO 1992-US8822	19921022
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
CN 1071924	A	19930512	CN 1992-112827	19920923
ZA 9207272	A	19940323	ZA 1992-7272	19920923
AU 9228716	A	19930607	AU 1992-28716	19921022
EP 610314	A1	19940817	EP 1992-922261	19921022
R: DE, ES, FR, GB, IT				
US 5510320	A	19960423	US 1994-211721	19940426
PRIORITY APPLN. INFO.:			US 1991-784343 A2	19911029
			WO 1992-US8822 A	19921022

OTHER SOURCE(S): MARPAT 119:249954
ED Entered STN: 11 Dec 1993
AB The title compds. I [A = substituted 5-membered heterocyclic ring; R1 = H, (un)substituted C1-6 alkyl, C3-6 cycloalkyl, (un)substituted C2-6 alkenyl, C3-6 alkynyl, C1-3 alkoxy; R2 = (un)substituted C1-6 alkyl, C3-6 cycloalkyl, (un)substituted C2-6 alkenyl, C3-6 alkynyl; n = 0-2; R1R2 = (CH2)x; x = 3-6], which offer outstanding tolerance to corn, soybeans, rice, cotton, wheat, sugarbeets, etc., and control of crab grass, giant fox tail, barnyard grass, and black grass, are prepared Thus, 1,2,4-triazol-3-thiol was reacted with Na in the presence of 3-chloro-2,4-pentanedione, the intermediate reacted with ethylhydrazine oxalate in the presence of Na, diethylcarbamyl chloride added, and the mixture oxidized with 3-chloroperoxybenzoic acid, producing N,N-diethyl-3-[(1-ethyl-3,5-dimethyl-1H-pyrazol-4-yl)sulfonyl]-1H-1,2,4- triazole-1-carboxamide.

L27 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:408685 CAPLUS Full-text
DOCUMENT NUMBER: 119:8685
TITLE: Preparation of substituted pyridine **herbicides**
INVENTOR(S): Drumm, Joseph E.; Lett, Renee Marie; Rayner, Dennis R.; Rorer, Morris Padgett; **Tseng, Chi Ping**; Patel, Kanu Maganbhai; Yang, Alexander Yung Shing
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 145 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9222203	A1	19921223	WO 1992-US4644	19920609
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN,				

GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG

AU 9221874	A	19930112	AU 1992-21874	19920609
EP 590045	A1	19940406	EP 1992-913990	19920609
R: DE, ES, FR, GB, IT				
JP 06508621	T	19940929	JP 1993-500912	19920609
CN 1069972	A	19930317	CN 1992-105947	19920612
US 5438033	A	19950801	US 1993-150193	19931209
PRIORITY APPLN. INFO.:			US 1991-713909	A2 19910612
			WO 1992-US4644	A 19920609

OTHER SOURCE(S): MARPAT 119:8685
ED Entered STN: 10 Jul 1993
AB **Herbicidal** compns. containing pyridines I [R1 = Cl, Br, iodo, OMe, OCHF2, OCF3; R2 = cyano, CHO, (un)substituted CO2H, C(X)NH2, C(S)OH, C.tplbond.CH, etc.; R3 = (un)substituted alkyl, alkenyl, Ph, alkoxy, alkylthio, amino, PhO, PhS, etc., cycloalkyl(methyl); X = O, S], or their N-oxides or salts, and a surfactant and/or a (solid or liquid) diluent are claimed, and over 100 I were prepared The compns. may contain addnl. known **herbicides** such as mefenacet, bensulfuron Me, or butachlor (II). For example, cyclization of Et formate with MeCOCH2CHMe2 and cyanoacetamide, treatment of the resultant 1,2-dihydro-2-oxo-6-(3- methylbutyl)pyridine-3-carbonitrile with POCl3 and PCl5, and H2O2-assisted basic hydrolysis of the cyano group, gave I (R1 = Cl, R2 = CONH2, R3 = 6-CH2CH2CHMe2) (III). In postemergence tests, II at 250 g/ha and III at 64 g/ha gave 35% and 80% control of Echinochloa oryzicola, resp., without phytotoxicity to rice; a combination of the 2 compds. as above gave 90% control (vs. 87% predicted for nonsynergistic).

L27 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:122265 CAPLUS Full-text
DOCUMENT NUMBER: 114:122265
TITLE: Heterocyclic amine precursors to sulfonylurea **herbicides**
AUTHOR(S): Zimmerman, W. T.; Hillemann, C. L.; Selby, T. P.; Shapiro, R.; **Tseng, C. P.**; Wexler, B. A.
CORPORATE SOURCE: Stine-Haskell Res. Cent., E. I. du Pont de Nemours and Co., Newark, DE, 19714, USA
SOURCE: ACS Symposium Series (1991), 443(Synth. Chem. Agrochem. 2), 74-86
CODEN: ACSMC8; ISSN: 0097-6156
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 06 Apr 1991
AB A symposium report. Numerous substituted pyrimidine and triazine amines have found utility as precursors to highly active and crop selective sulfonylurea **herbicides**. In the process of optimizing **herbicidal** efficacy and crop safety within this class, a variety of structurally diverse heterocyclic amines were synthesized and evaluated. This paper reviews the methods of preparation that were developed for some of the different structural types used as intermediates to active sulfonylurea **herbicides**. These methods include cyclizations, rearrangements, and side-chain metalations that have led to furo[2,3-d]pyrimidines, pyrazinones, and selectively functionalized pyrimidines, triazines, triazoles, and pyridines.

L27 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:7508 CAPLUS Full-text
DOCUMENT NUMBER: 112:7508
TITLE: Heterocyclic acyl sulfonamides useful as **herbicides** and plant growth regulants, and their compositions and use

INVENTOR(S): **Tseng, Chi Ping**
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 117 pp. Cont.-in-part of U.S. Ser. No. 22,949, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4838925	A	19890613	US 1987-101314	19870925
CA 1273336	A1	19900828	CA 1987-535404	19870423
DK 8702085	A	19871026	DK 1987-2085	19870424
AU 8771955	A	19871029	AU 1987-71955	19870424
JP 63022077	A	19880129	JP 1987-101171	19870425
ZA 8702980	A	19881228	ZA 1987-2980	19870427
US 4908056	A	19900313	US 1989-311897	19890217

PRIORITY APPLN. INFO.: US 1986-856511 A2 19860425
US 1986-892062 A2 19860801
US 1987-22949 A2 19870317
US 1987-22279 B2 19870317
US 1987-101314 A3 19870925
OTHER SOURCE(S): CASREACT 112:7508; MARPAT 112:7508
ED Entered STN: 06 Jan 1990
AB Sulfonamides LSO2NRC(:W)A and derivs. LSO2N:C(G)A [R = H, (halo)alkyl, (halo)thioalkyl, allyl, propargyl, alkanoyl, CO2Me, CO2Et, (un)substituted PhCH2; G = Cl, (halo)alkoxy, (halo)alkylthio; W = O, S, NH or NOH optionally substituted by (halo)alkyl; L = various (un)substituted aryl and heteroaryl nuclei; A = various fused bi- and tri-cyclic aromatic heterocycles containing ≥1 N atom and possibly O or S; numerous provisos], useful as **herbicides** and plant growth regulants, are prepared Thus, condensation of 5,7-dimethylpyrazolo[1,5-a]pyrimidine-3- carboxylic acid with 2-(H2NSO2)C6H4CO2Me via the acid chloride (SOCl2, pyridine, CH2Cl2) in CH2Cl2 containing Et3N gave Me [[(dimethylpyrazolopyrimidine)carbonylamino]sulfonyl]benzoate I. At 0.4 kg/ha postemergence, I completely killed 5 weeds including Xanthium pensylvanicum and Bromus secalinus. Over 130 compds. were prepared and over 80 were tested pre- and postemergence.

L27 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:492328 CAPLUS Full-text
DOCUMENT NUMBER: 111:92328
TITLE: **Herbicidal** sulfonamides
INVENTOR(S): **Tseng, Chi Ping**
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: Eur. Pat. Appl., 249 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 301919	A2	19890201	EP 1988-307095	19880801
EP 301919	A3	19890329		
R: ES, GR				
US 4921527	A	19900501	US 1988-190242	19880504

WO 8900994	A2	19890209	WO 1988-US1972		19880615
WO 8900994	A3	19890420			
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE					
EP 368897	A1	19900523	EP 1988-906362		19880615
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
PRIORITY APPLN. INFO.:			US 1987-80471	A	19870731
			US 1988-190242	A	19880504
			US 1988-190243	A	19880504

OTHER SOURCE(S): MARPAT 111:92328
ED Entered STN: 16 Sep 1989
AB The sulfonamides LSO2NHC(:W)NRA (I) [L = (un)substituted bicyclic (fused 6- and 5-membered) heterocyclyl, containing ≥2 N; A = (un)substituted 1,2,4-triazol-2-yl, 1,3,5-triazinyl, pyrimidin-2-yl, etc.; W = O, S; R = H, Me] and their salts are prepared as **herbicides**. 1,8-Diazabicyclo[4,5,0]undec-7-ene was added to a suspension of 5,7-dimethylpyrazole[1,5-a]pyrimidine-3-sulfonamide (preparation given) and Ph 4,6-dimethoxy-2-pyrimidinylcarbamate in anhydrous acetonitrile, to give I (L = 5,7-dimethylpyrazolo[1,5-a]pyrimidin-3-yl; A = 4,6-dimethoxy-2- pyrimidinyl; R = H, W = O) (II). II, applied postemergence, at 0.05 kg/ha), totally controlled morning-glory (Ipomoea), cocklebur (Xanthium pensylvanicum), nutsedge (Cyperus rotunolus) and other weeds. A wettable powder comprised II 90, Na dioctylsulfosuccinate 0.5 and SiO2 9.9%.

L27 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:528833 CAPLUS Full-text
DOCUMENT NUMBER: 109:128833
TITLE: Preparation of 2-[[N-(3-cyano-pyridin-2-yl)aminocarbonyl]aminosulphonyl]benzoates having **herbicidal** activity
INVENTOR(S): Holyoke, Caleb W., Jr.; **Tseng, Chi Ping**; Zimmerman, William T.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 29 pp. Cont.-in-part of U.S. Ser. No. 591,314, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 4723991	A	19880209	US 1985-770257		19850828
AU 8427738	A	19841115	AU 1984-27738		19840507
AU 571869	B2	19880428			
DK 8402288	A	19841110	DK 1984-2288		19840508
ZA 8403448	A	19851224	ZA 1984-3448		19840508
CA 1236103	A1	19880503	CA 1984-453865		19840508
JP 59231004	A	19841225	JP 1984-91136		19840509
BR 8402136	A	19841218	BR 1984-2136		19841109
CA 1273926	A2	19900911	CA 1987-536452		19870505
US 4906288	A	19900306	US 1987-116551		19871104
PRIORITY APPLN. INFO.:			US 1983-493079	A2	19830509
			US 1984-591314	A2	19840323
			CA 1984-453865	A3	19840508
			US 1985-770257	A2	19850828

OTHER SOURCE(S): CASREACT 109:128833; MARPAT 109:128833
ED Entered STN: 14 Oct 1988
AB JSO2NHC(:W1)NRA (I; A = substituted cyanopyridyl; J = substituted Ph; R = H, Me; W1 = O, S) and their salts, were prepared Me 2-amino-4,6-

dimethylpyridine-3-carboxylate and 2-ClC6H4SO2NCO were reacted at room temperature in MeCN for 48 h to give 2-chloro-N-[(4,6-dimethyl-3-methoxycarbonylpyridin-2-yl)aminocarbonyl]benzenesufonamide which gave 90% growth retardation of barnyardgrass and wild oats at 50 g/ha preemergent.

L27 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:186762 CAPLUS Full-text
DOCUMENT NUMBER: 108:186762
TITLE: Preparation, testing, and formulation of heterocyclic acetyl sulfonamides as **herbicides** and plant growth regulators
INVENTOR(S): **Tseng, Chi Ping**
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: Eur. Pat. Appl., 471 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 244166	A2	19871104	EP 1987-303616	19870424
EP 244166	A3	19890726		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 1273336	A1	19900828	CA 1987-535404	19870423
DK 8702085	A	19871026	DK 1987-2085	19870424
AU 8771955	A	19871029	AU 1987-71955	19870424
JP 63022077	A	19880129	JP 1987-101171	19870425
ZA 8702980	A	19881228	ZA 1987-2980	19870427
PRIORITY APPLN. INFO.:			US 1986-856511 A	19860425
			US 1986-892062 A	19860801
			US 1987-22949 A	19870317

ED Entered STN: 28 May 1988
AB LSO2NRC(:W)A and LSO2N:CGA [I and II; R = H, (halo)alkyl, (halo)thioalkyl, (substituted) PHCH2; H2C:CHCH2, HC.tplbond.CCH2, acyl, CO2Me, CO2Et; A = bicyclic, tricyclic, or quadricyclic heterocyclyl; G = Cl, alkoxy, thioalkoxy; W = O, S, imino, oximino; L = (substituted) Ph, naphthyl, N-oxopyridyl, thienyl, pyrazolyl, imidazolyl, etc.] were prepared as **herbicides**. 5,7-Dimethylpyrazolo(1,5-a)pyrimidine-3-carboxylate was converted to the acid chloride which in turn was amidated by Me 2-(aminosulfonyl)benzoate in CH2Cl2 at room temperature to give Me 2-(((5,7-dimethylpyrazolo(1,5-a)pyrimidine-3-yl)- carbonylamino)sulfonyl)benzoate. Several I and II gave complete control of velvet leaf at 0.4 kg/ha postemergent.

L27 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:578272 CAPLUS Full-text
DOCUMENT NUMBER: 103:178272
TITLE: **Herbicidal** benzenesulfonamides, benzylsulfonamides and benzenesulfamates
INVENTOR(S): Hanagan, Mary Ann; Hay, James Volney; **Tseng, Chi Ping**
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA
SOURCE: Eur. Pat. Appl., 211 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 135332	A1	19850327	EP 1984-305305	19840803
EP 135332	B1	19881207		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4604131	A	19860805	US 1984-628259	19840712
US 4652304	A	19870324	US 1984-628939	19840713
CA 1221690	A1	19870512	CA 1984-460226	19840802
AT 39118	T	19881215	AT 1984-305305	19840803
US 4786316	A	19881122	US 1986-941713	19861212

PRIORITY APPLN. INFO.:	US 1983-520801	A	19830805
	US 1983-533771	A	19830919
	US 1983-559372	A	19831208
	US 1984-624843	A	19840629
	US 1984-628259	A	19840712
	US 1984-628939	A	19840713
	EP 1984-305305	A	19840803

OTHER SOURCE(S): CASREACT 103:178272; MARPAT 103:178272
ED Entered STN: 30 Nov 1985
AB RSO2NHCONR1R2 (I; R = substituted Ph, PhCH2, PhO; R1 = H, Me; R2 = substituted 2-pyrimidinyl, 1,3,5-triazin-2-yl, 1,3,5-triazin-2-ylmethyl, 1H-1,2,4-triazol-3-yl) were prepared Thus, PhSO2NHCMe3 was treated with BuLi and Me2S2 to give 2-MeSC6H4SO2NHCMe3 which was phenylated by treatment with BuLi and PhI to give 2,6-Ph(MeS)C6H3SO2NHCMe3. This was de-tert-butylated, oxidized to the sulfone, and treated with Me (4-methoxy-6-methyl-2-pyrimidinyl)carbamate to give sulfonylurea II. I are effective pre- and postemergence **herbicides** at 50-400 g/ha.

L27 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:149284 CAPLUS Full-text
DOCUMENT NUMBER: 102:149284
TITLE: **Herbicidal** sulfonamides
INVENTOR(S): Holyoke, Caleb William, Jr.; **Tseng, Chi Ping** ; Zimmerman, William Thomas
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA
SOURCE: Eur. Pat. Appl., 76 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 125864	A1	19841121	EP 1984-303076	19840508
EP 125864	B1	19870408		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AU 8427738	A	19841115	AU 1984-27738	19840507
AU 571869	B2	19880428		
DK 8402288	A	19841110	DK 1984-2288	19840508
ZA 8403448	A	19851224	ZA 1984-3448	19840508
AT 26442	T	19870415	AT 1984-303076	19840508
CA 1236103	A1	19880503	CA 1984-453865	19840508
JP 59231004	A	19841225	JP 1984-91136	19840509
BR 8402136	A	19841218	BR 1984-2136	19841109
CA 1273926	A2	19900911	CA 1987-536452	19870505

PRIORITY APPLN. INFO.:	US 1983-493079	A	19830509

US 1984-591314	A	19840323
CA 1984-453865	A3	19840508
EP 1984-303076	A	19840508

OTHER SOURCE(S): MARPAT 102:149284
ED Entered STN: 04 May 1985
AB Sulfonylureas I (X = CH, N; R = substituted Ph, naphthyl, 2-alkoxycarbonylbenzyl, 3-pyridyl, thienyl, benzothienyl, benzofuryl, benzisothiazolyl, benzopyranyl; R1 = H, Me; R2 = cyano, CO2Me, CO2Et, NO2, alkylsulfinyl, alkylsulfonyl, carbamoyl; R3 = Me, OMe, OEt, CH2OMe, Cl; R4 = Me, OMe, OEt, Cl) were prepared Thus, 2-amino-4,6-dimethyl-3-pyridinecarbonitrile was treated with 2-O2NC6H4SO2NCO to give II which at 50 g/ha preemergence gave ≥80% control of Ipomoea hederacea.

L27 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:95668 CAPLUS Full-text
DOCUMENT NUMBER: 102:95668
TITLE: **Herbicidal** sulfonamide inner salts
INVENTOR(S): **Tseng, Chi Ping**
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA
SOURCE: U.S., 30 pp. Cont.-in-part of U.S. Ser. No. 467,650, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4484939	A	19841127	US 1983-551004	19831116
EP 117014	A1	19840829	EP 1984-300013	19840103
EP 117014	B1	19880706		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 35541	T	19880715	AT 1984-300013	19840103
US 4604133	A	19860805	US 1984-670967	19841113

PRIORITY APPLN. INFO.: US 1983-467650	A2	19830218
US 1983-455504	A	19830104
US 1983-551004	A	19831116
US 1983-551381	A	19831117
EP 1984-300013	A	19840103

OTHER SOURCE(S): CASREACT 102:95668
ED Entered STN: 22 Mar 1985
AB RSO2N-CONR1S+R2R3 [I; R = substituted Ph, heterocyclyl; R1 = substituted 2-pyrimidinyl, 1,3,5-triazin-2-yl; R2,R3 = Me, Et] were prepared Thus, 2-amino-4,6-dimethylpyrimidine and Me2S in CH2Cl2 were treated with N-chlorosuccinimide at -20° to give sulfilimine II. This was treated with 2-ClC6H4SO2NCO to give sulfiliminium inner salt III. Against, e.g., Xanthium pennsylvanicum 0.4 kg II/ha gave 100% kill.

L27 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:6533 CAPLUS Full-text
DOCUMENT NUMBER: 102:6533
TITLE: **Herbicidal** N-hydroxy-N'-sulfonylguanidines and sulfonamide inner salts
INVENTOR(S): Shapiro, Rafael; **Tseng, Chi Ping**
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA
SOURCE: Eur. Pat. Appl., 187 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 117014	A1	19840829	EP 1984-300013	19840103
EP 117014	B1	19880706		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4484939	A	19841127	US 1983-551004	19831116
AT 35541	T	19880715	AT 1984-300013	19840103
US 4689070	A	19870825	US 1985-736950	19850522
US 4750930	A	19880614	US 1987-60212	19870610
US 4904299	A	19900227	US 1988-156891	19880217

PRIORITY APPLN. INFO.:

US 1983-455504	A	19830104
US 1983-467650	A	19830218
US 1983-551004	A	19831116
US 1983-551381	A	19831117
EP 1983-300078	A	19830107
CA 1983-443738	A	19831220
EP 1984-300013	A	19840103
US 1985-736950	A3	19850522
US 1987-60212	A3	19870610

OTHER SOURCE(S): CASREACT 102:6533; MARPAT 102:6533
ED Entered STN: 12 Jan 1985
AB **Herbicidal** RSO2N-CON(S+R1R2)R3 [R = (unsubstituted Ph, 1-naphthyl, 3-pyridyl, 3-thienyl, heteroaryl; R1, R2 = Me, Et; R3 = (un)substituted triazinyl, pyrimidinyl, heterocyclopyrimidyl, triazolyl] and benzenesulfonamides I (R4 = Cl, CO2Me, SO2NMe2; R5 = H, Ac; R6, R7 = Me, OMe; X = CH, N) were prepared Thus, aminopyrimidine II (R8 = NH2) reacted with Me2S and N-chlorosuccinimide to give II (R8 = N-S+Me2), which gave the sulfonium inner salt III on treatment with 2-ClC6H4SO2NCO. At 0.4 kg/ha postemergent, III gave complete kill of Cyperus rotundus (nutsedge).

L27 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:34561 CAPLUS Full-text
DOCUMENT NUMBER: 100:34561
TITLE: Fused [1,2,4]oxadiazolylidenebenzenesulfonamides and their use as **herbicides** and plant-growth regulants
INVENTOR(S): **Tseng, Chi Ping**
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA
SOURCE: U.S., 18 pp. Cont.-in-part of U.S. Ser. No. 228,705, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4411690	A	19831025	US 1981-326267	19811203
BR 8200315	A	19821123	BR 1982-315	19820122
DK 8200318	A	19820727	DK 1982-318	19820125
AU 8279806	A	19820805	AU 1982-79806	19820125
EP 58476	A2	19820825	EP 1982-300352	19820125
EP 58476	A3	19821124		

R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE

JP 57146783	A	19820910	JP 1982-9030	19820125
PRIORITY APPLN. INFO.:			US 1981-228705	A2 19810126
			US 1981-326267	A 19811203

OTHER SOURCE(S): CASREACT 100:34561
ED Entered STN: 12 May 1984
AB Title compds. I (R = alkyl, alkoxy, halo, NO2, acyl, alkylsulfonyl, substituted sulfamoyl, halogenated ethoxysulfonyl, etc.; R1 = H, halo, CF3, NO2, alkyl, alkoxy; R2 = alkyl, alkoxy; R3 = H, Cl, CF3, alkyl, alkoxy, alkoxyalkyl) were prepared Thus, 2.0 g 2-ClC6H4SO2N:C(SMe)2 was treated with 2 portions (3.3 and 2.0 g) of SO2Cl2 in CH2Cl2, and the resulting mixture reacted with 1.0 g pyrimidinamine II and 0.54 g NaH in THF to give 0.7 g title product III. I were rated for **herbicidal** activity on a scale of 1 to 10 (highest). E.g., III received a rating of 10 in the postemergent defoliation of bushbean and a rating of 9 in the preemergent growth retardation of morning glory.

L27 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1983:53904 CAPLUS Full-text
DOCUMENT NUMBER: 98:53904
TITLE: Fused [1,2,4]oxadiazolylidenebenzenesulfonamides and their use as **herbicides** and plant growth regulants
INVENTOR(S): **Tseng, Chi Ping**
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA
SOURCE: Eur. Pat. Appl., 67 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 58476	A2	19820825	EP 1982-300352	19820125
EP 58476	A3	19821124		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4411690	A	19831025	US 1981-326267	19811203
PRIORITY APPLN. INFO.:			US 1981-228705	A 19810126
			US 1981-326267	A 19811203

OTHER SOURCE(S): MARPAT 98:53904
ED Entered STN: 12 May 1984
AB The title compds. I [R = alkyl, alkoxy, F, Cl, Br, NO2, CF3, alkoxycarbonyl, alkenyloxycarbonyl, SO2R4 (R4 = dialkylamino, alkyl, alkoxy, OS(O)2R5 (R5 = alkyl), R1 = H, R, Cl, Br, CF3, HO2, alkyl, alkoxy; R2 = Me, Et, MeO, EtO; R3 = H, Cl, CF3, alkyl, alkoxy, CH2OMe, CH2OEt, CH2CH2OMe, CH2CH2OEt; X = CH, N] and their agriculturally acceptable salts were prepared Thus, 4,6-dimethyl-2-pyrimidinamine was oxidized with m-ClC6H4C(O)OOH to give 4,6-dimethyl-2-pyrimidinamine oxide, which was treated with o-ClC6H4SO2N:C(SMe)2 to give the oxadiazolopyrimidine II. The pre- and postemergence activity of six I against a variety of plants was tabulated.

L27 ANSWER 29 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1983:4570 CAPLUS Full-text
DOCUMENT NUMBER: 98:4570
TITLE: Sulfonylurea N-oxides
INVENTOR(S): **Tseng, Chi Ping**
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA

SOURCE: Eur. Pat. Appl., 222 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 57546	A2	19820811	EP 1982-300353	19820125
EP 57546	A3	19821103		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
BR 8200353	A	19821123	BR 1982-353	19820122
DK 8200319	A	19820727	DK 1982-319	19820125
AU 8279805	A	19820805	AU 1982-79805	19820125
JP 57146764	A	19820910	JP 1982-9029	19820125
PRIORITY APPLN. INFO.:			US 1981-228706 A	19810126
			US 1981-325121 A	19811130

ED Entered STN: 12 May 1984
AB RSO2NHCONR1R2 (R = substituted phenyl, pyridyl, thienyl, 1-naphthyl; R1 = substituted pyrimidinyl, triazinyl, furopyrimidinyl, pyranopyrimidinyl; R2 = H, Me) (30 compds.) were prepared Thus, 4,6-dimethyl-2-pyrimidinamine was oxidized to the 1-oxide and treated with 2-ClC6H4SO2NCO to give I which at 0.4 kg/ha pre- were post-emergence gave > 90% control of various weeds.

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=> file reg; d stat que l18
FILE 'REGISTRY' ENTERED AT 14:05:40 ON 11 MAY 2007
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provided by InfoChem.

STRUCTURE FILE UPDATES:   10 MAY 2007  HIGHEST RN 934586-26-2
DICTIONARY FILE UPDATES:  10 MAY 2007  HIGHEST RN 934586-26-2

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

  Please note that search-term pricing does apply when
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predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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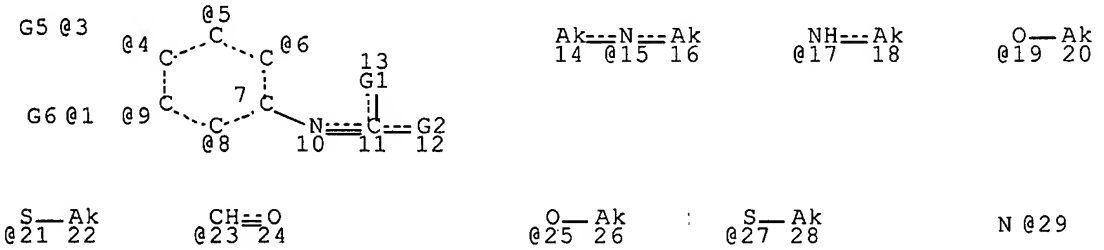


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VAR G5=X/CN/AK/19/21/23
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VPA 1-6/5/4/9/8 SE
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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  28

STEREO ATTRIBUTES: NONE
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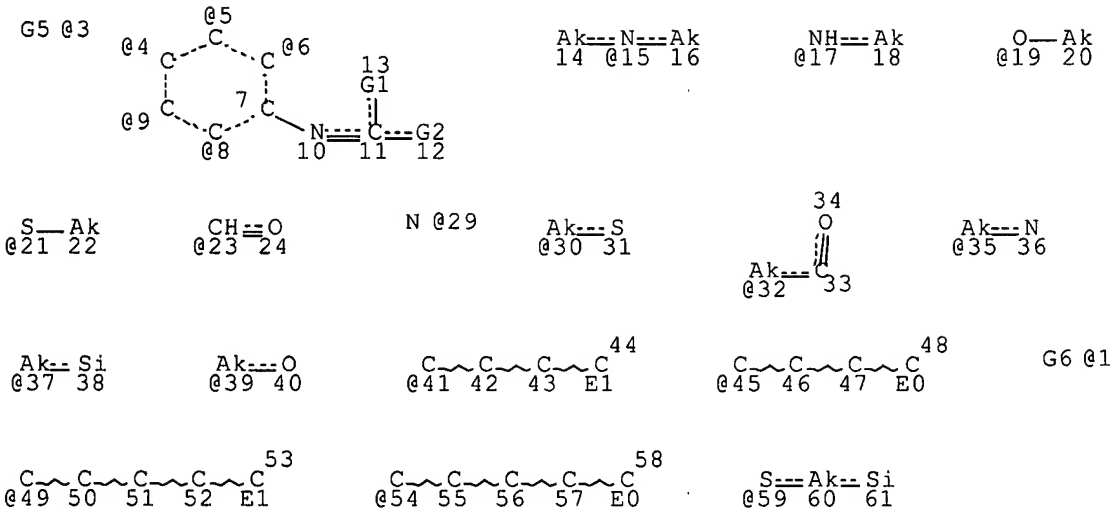

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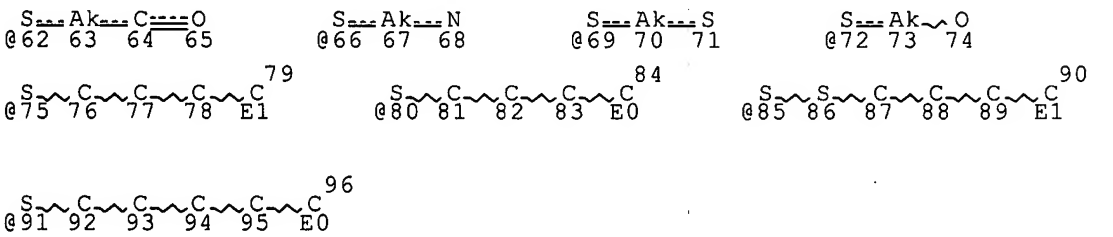

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NSPEC IS R AT 29
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GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 91

STEREO ATTRIBUTES: NONE
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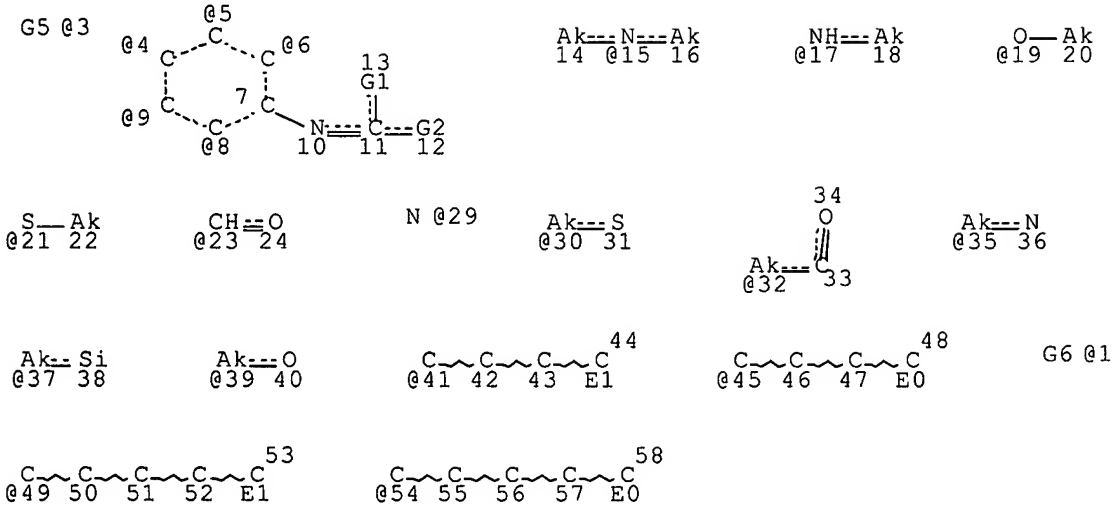

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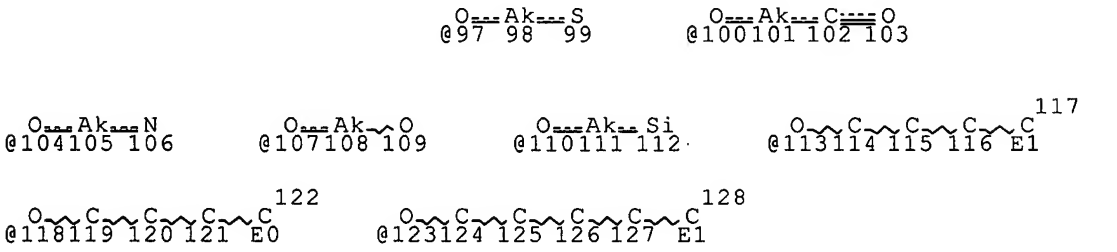

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Page 3-A
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VAR G5=X/CN/AK/19/21/23
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ECOUNT  IS M1-X5 C  AT 105
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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  91

STEREO ATTRIBUTES: NONE
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100.0% PROCESSED    2928 ITERATIONS                    400 ANSWERS
SEARCH TIME: 00.00.01



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L15             STR
L16             STR
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=> file caplus; d stat que nos l21
FILE 'CAPLUS' ENTERED AT 14:06:04 ON 11 MAY 2007
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FILE COVERS 1907 - 11 May 2007 VOL 146 ISS 21
FILE LAST UPDATED: 10 May 2007 (20070510/ED)

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L21          57 SEA FILE=CAPLUS ABB=ON  PLU=ON  L20
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L21 ANSWER 1 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:88339 CAPLUS Full-text
DOCUMENT NUMBER: 146:178834
TITLE: Synergistic pesticidal mixtures with nitrogen-containing component
INVENTOR(S): Hughes, David John; Peace, James Edward; Riley, Suzanna; Russell, Sally; Swanborough, Joseph John; Jeanguenat, Andre; Renold, Peter; Hall, Roger Graham; Loiseleur, Olivier; Trah, Stephan; Wenger, Jean
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.; Syngenta Limited
SOURCE: PCT Int. Appl., 261pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007009661	A2	20070125	WO 2006-EP6866	20060713
WO 2007009661	A3	20070329		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: GB 2005-14652 A 20050715

OTHER SOURCE(S): MARPAT 146:178834

ED Entered STN: 26 Jan 2007

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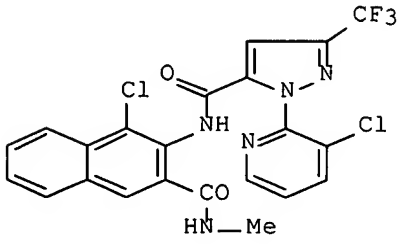


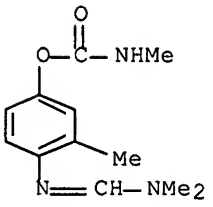
I

AB Pesticidal compns. comprise mixts. consisting of N-containing compds. (e.g., I) and ≥1 compound selected from acaricides, anthelmintics, avicides, bactericides, biol. agents, chemosterilants, insect repellents, insecticides, etc. The compns. are applied to pests or their environment for controlling insects or representatives of the order Acarina. Also claimed is plant propagation material treated with such a composition and treatment of the site where the propagation material is planted. Thus, young soybean plants were sprayed with an aqueous emulsion comprising 400 ppm of active ingredient mixture of the invention, populated with 10 Spodoptera littoralis caterpillars (in the third stage), then placed in a container. Evaluation after 3 days showed that the mixture exhibited good activity.

IT **17702-57-7D**, Formparanate, mixts. containing
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(as synergistic pesticides)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 2 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:88149 CAPLUS Full-text

DOCUMENT NUMBER: 146:178833

TITLE: Nonflammable insecticidal foams for treating parasite

infestations
INVENTOR(S): Tamarkin, Dov; Friedman, Doron; Eini, Meir
PATENT ASSIGNEE(S): Foamix Ltd., Israel
SOURCE: U.S. Pat. Appl. Publ., 16pp., Cont.-in-part of U.S. Ser. No. 532,618.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 17
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2007020304	A1	20070125	US 2006-481596	20060706
WO 2004037225	A2	20040506	WO 2003-IB5527	20031024
WO 2004037225	A3	20041229		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005069566	A1	20050331	US 2004-911367	20040804
US 2006140984	A1	20060629	US 2005-532618	20051222

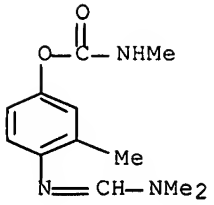
PRIORITY APPLN. INFO.:

IL 2002-152486	A	20021025
US 2002-429546P	P	20021129
US 2003-492385P	P	20030804
WO 2003-IB5527	W	20031024
US 2004-911367	A2	20040804
US 2005-696878P	P	20050706
US 2005-532618	A2	20051222

ED Entered STN: 26 Jan 2007

AB Safe and effective foamable compns. for treating a subject infested with a parasitic arthropod or for preventing infestation include a first insecticide; ≥1 organic carrier selected from a hydrophobic carrier, a polar solvent, an emollient and mixts. thereof at 2-50% by weight; .apprx.0.1-5% by weight of a surface-active agent; .apprx.0.01-5% by weight of ≥1 polymeric agent selected from a bioadhesive agent, a gelling agent, a film-forming agent and a phase change agent; and a liquefied or compressed gas propellant at .apprx.3-25% by weight of the total composition The organic carrier may comprise a second insecticide and(or) a potent solvent. Thus, a foamable insecticide composition containing permethrin (1 %), star anise oil (2.00% weight/weight as second insecticide) and diisopropyl adipate and di-Me isosorbide as potent solvents was safe and effective in the treatment of head lice (Pediculosis capitis) in pediatric patients.

IT **17702-57-7**, Formparanate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nonflammable insecticidal foams for treating parasite infestations)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 3 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1356873 CAPLUS Full-text
DOCUMENT NUMBER: 146:76544
TITLE: Synergistic fungicide composition comprising a phosphorous acid derivative, a mandelamide type compound and a further fungicide
INVENTOR(S): Gouot, Jean-Marie; Latorse, Marie-Pascale
PATENT ASSIGNEE(S): Bayer Cropscience SA, Fr.
SOURCE: PCT Int. Appl., 39pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006136551	A1	20061228	WO 2006-EP63349	20060620

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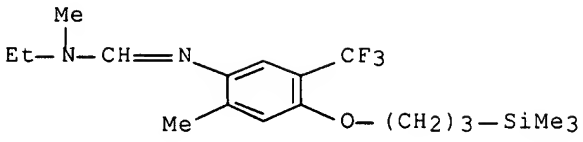
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: EP 2005-356110 A 20050621
OTHER SOURCE(S): MARPAT 146:76544
ED Entered STN: 29 Dec 2006
AB Synergistic fungicide compns. comprise a phosphorous acid derivative (phosphonate or phosphite derivative), a mandelamide type like mandipropamid and a further fungicide. In addition, such combinations have a broad spectrum of activity.
IT **870765-96-1D**, mixts. with phosphorous acid derivative and mandipropamide
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal compns.)
RN 870765-96-1 CAPLUS
CN Methanimidamide, N-ethyl-N-methyl-N'-[2-methyl-5-(trifluoromethyl)-4-[3-(trimethylsilyl)propoxy]phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 4 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:343598 CAPLUS Full-text
DOCUMENT NUMBER: 144:364543
TITLE: Synergistic fungicidal compositions comprising pyrazole derivatives
INVENTOR(S): Walter, Harald; Corsi, Camilla; Ehrenfreund, Josef; Lamberth, Clemens; Tobler, Hans
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 142 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037632	A1	20060413	WO 2005-EP10755	20051006

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: GB 2004-22401 A 20041008
OTHER SOURCE(S): MARPAT 144:364543
ED Entered STN: 14 Apr 2006
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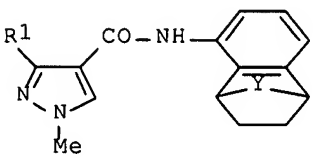


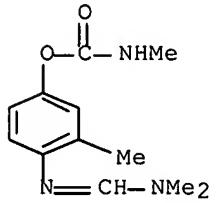
I

AB Synergistic fungicidal compns. comprise a pyrazole derivative I (R1 = difluoromethyl or trifluoromethyl; Y = CHR2 or C:CH2; R2 = H or alkyl) or a I tautomer and component any of a very large number of known fungicides and insecticides.

IT **17702-57-7D**, Formparanate, mixts. with pyrazole derivs.
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal compns.)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 5 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:343286 CAPLUS Full-text
DOCUMENT NUMBER: 144:364542
TITLE: Synergistic fungicidal compositions comprising a pyridine derivative
INVENTOR(S): Walter, Harald; Corsi, Camilla; Ehrendfreund, Josef; Lamberth, Clemens; Tobler, Hans
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 112 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

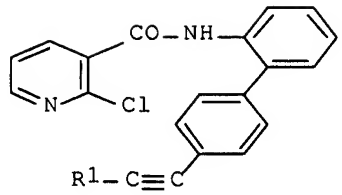
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037633	A1	20060413	WO 2005-EP10756	20051006

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: GB 2004-22399 A 20041008
OTHER SOURCE(S): MARPAT 144:364542
ED Entered STN: 14 Apr 2006

GI



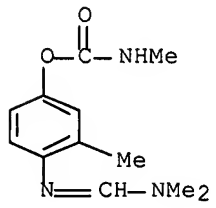
I

AB A method of controlling phytopathogenic diseases on useful plants or on plant propagation material comprises applying a pyridine derivative I (R1 = alkyl, alkoxyalkyl or haloalkyl) or a I tautomer, in a mixts. with any of a very large number of known fungicides and/or insecticides.

IT **17702-57-7D**, Formparanate, mixts. with pyridine derivs.
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal compns.)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 6 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:342999 CAPLUS Full-text

DOCUMENT NUMBER: 144:364541

TITLE: Synergistic fungicidal compositions comprising a pyrazole derivative

INVENTOR(S): Walter, Harald; Corsi, Camilla; Ehrenfreund, Josef; Lamberth, Clemens; Tobler, Hans

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 139 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2006037634	A1	20060413	WO 2005-EP10757	20051006

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

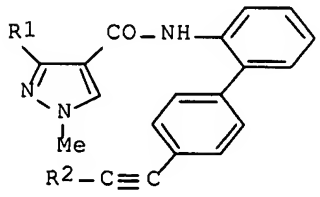
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: GB 2004-22400 A 20041008

OTHER SOURCE(S): MARPAT 144:364541

ED Entered STN: 14 Apr 2006

GI



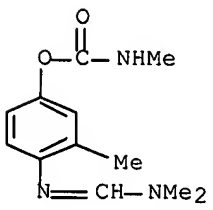
I

AB Synergistic fungicidal compns. comprise a pyrazole derivative I (R1 = difluoromethyl or trifluoromethyl; R2 = alkyl, alkoxyalkyl or haloalkyl) or a I tautomer and any of a very large number of known fungicides and/or insecticides.

IT **17702-57-7D**, Formparanate, mixts. with pyrazole derivs.
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal compns.)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



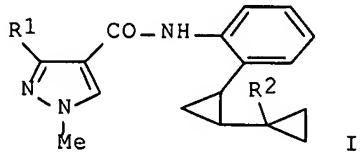
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 7 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:151202 CAPLUS Full-text
DOCUMENT NUMBER: 144:207363
TITLE: Synergistic fungicidal compositions comprising pyrazole derivatives
INVENTOR(S): Walter, Harald; Neuenschwander, Urs; Zeun, Ronald; Ehrenfreund, Josef; Tobler, Hans; Corsi, Camilla; Lamberth, Clemens
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006015865	A1	20060216	WO 2005-EP8748	20050811
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005270319	A1	20060216	AU 2005-270319	20050811
CA 2573661	A1	20060216	CA 2005-2573661	20050811
EP 1778013	A1	20070502	EP 2005-791052	20050811
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BA, HR, MK, YU				

PRIORITY APPLN. INFO.: GB 2004-18047 A 20040812
WO 2005-EP8748 W 20050811

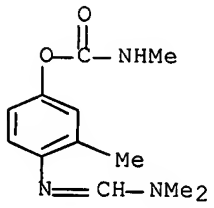
OTHER SOURCE(S): MARPAT 144:207363
ED Entered STN: 17 Feb 2006
GI



I

AB Synergistic fungicidal compns. comprise the pyrazole derivs. I (R1 = CF3 or CHF2; H or Me) or I tautomers and one of a very large number of known fungicides.

IT **17702-57-7D**, Formparanate, mixts. with pyrazole derivs.
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic fungicidal compns.)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 8 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:20543 CAPLUS Full-text
DOCUMENT NUMBER: 144:292702
TITLE: Discovery of Novel and Potent Thiazoloquinazolines as Selective Aurora A and B Kinase Inhibitors
AUTHOR(S): Jung, Frederic H.; Pasquet, Georges; Van der Brempt, Christine Lambert; Lohmann, Jean-Jacques M.; Warin, Nicolas; Renaud, Fabrice; Germain, Herve; De Savi, Chris; Roberts, Nicola; Johnson, Trevor; Dousson, Cyril; Hill, George B.; Mortlock, Andrew A.; Heron, Nicola; Wilkinson, Robert W.; Wedge, Stephen R.; Heaton, Simon P.; Odedra, Rajesh; Keen, Nicholas J.; Green, Stephen; Brown, Elaine; Thompson, Katherine; Brightwell, Stephen
CORPORATE SOURCE: Centre de Recherches, AstraZeneca, Reims, 51689, Fr.
SOURCE: Journal of Medicinal Chemistry (2006), 49(3), 955-970
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:292702
ED Entered STN: 10 Jan 2006
AB The synthesis of a novel series of quinazolines substituted at C4 by five-membered ring aminoheterocycles is reported. Their in vitro structure-activity relationships vs. Aurora A and B serine-threonine kinases is discussed. Our results demonstrate that quinazolines with a substituted aminothiazole at C4 possess potent Aurora A and B inhibitory activity and excellent selectivity against a panel of various serine-threonine and tyrosine kinases, as exemplified by N-(3-fluorophenyl)-2-[2-[[7-[3-[4-(hydroxymethyl)piperidin-1-yl]propoxy]-6- methoxy-quinazolinyl]amino]-1,3-thiazol-5-yl]acetamide (I). It was found also that the position and nature of the substituent on the thiazole play key roles in cellular potency. Compds. with an acetanilide substituent at C5' have the greatest cellular activity. The importance of the C5' position for substitution has been rationalized by ab initio MO calcns. Results show that the planar conformation with the sulfur of the thiazole next to the quinazoline N-3 is strongly favored over the other possible planar conformation. I is a potent suppressor of the expression of

phospho-histone H3 in tumor cells in vitro as well as in vivo, where I, administered as its phosphate prodrug suppresses the expression of phospho-histone H3 in s.c. implanted tumors in nude mice.

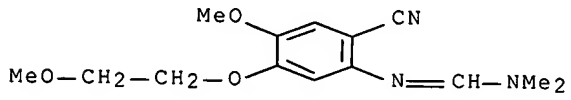
IT **870959-52-7P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(heterocyclization of (aminomethyleneamino)benzonitrile derivative in preparation of (aminoalkoxy)[(heterocyclic)amino]quinazolines as inhibitors of aurora A and B kinase)

RN 870959-52-7 CAPLUS

CN Methanimidamide, N'-[2-cyano-4-methoxy-5-(2-methoxyethoxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 9 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1329784 CAPLUS Full-text

DOCUMENT NUMBER: 144:46617

TITLE: Fungicidal mixtures of amidinylphenyl compounds

INVENTOR(S): Klapproth, Michael Caldwell; Tseng, Chi-Ping

PATENT ASSIGNEE(S): E.I. Dupont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

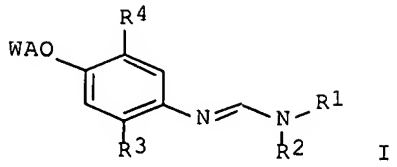
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005120234	A2	20051222	WO 2005-US19376	20050601
WO 2005120234	A3	20061005		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005251750	A1	20051222	AU 2005-251750	20050601
CA 2564813	A1	20051222	CA 2005-2564813	20050601
EP 1750508	A2	20070214	EP 2005-757307	20050601
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU				

PRIORITY APPLN. INFO.: US 2004-576780P P 20040603

WO 2005-US19376 W 20050601
OTHER SOURCE(S): MARPAT 144:46617
ED Entered STN: 22 Dec 2005
GI



I

AB Disclosed are fungicidal mixts. comprising phenylamidines (a) I [R1 = alkyl; R2 = alkyl or cyclopropyl; R3 H, alkyl or halo; R4 = alkyl, haloalkyl, methoxy, etc.; A = (methyl)alkylene; W= CR5R6R7or SiR8R9R10; R5 = H or (halo)alkyl; R6-10 = (halo)alkyl], I N-oxides or I salts and (b) at least one compound selected from alkylenebis(dithiocarbamate) fungicides, compds. acting at the bc1 complex of the fungal mitochondrial respiratory electron transfer site, cymoxanil, compds. acting at the demethylase enzyme of the sterol biosynthesis pathway, morpholine and piperidine compds. that act on the sterol biosynthesis pathway, phenylamide fungicides, pyrimidinone fungicides, chlorothalonil, carboxamides acting at complex II of the fungal mitochondrial respiratory electron transfer site, quinoxyfen, metrafenone, cyflufenamid, cyprodinil, copper compds., phthalimide fungicides, fosetyl-aluminum, benzimidazole fungicides, cyazofamid, fluazinam, iprovalicarb, propamocarb, validamycin, dichlorophenyl dicarboximide fungicides, zoxamide and dimethomorph, and their salts.

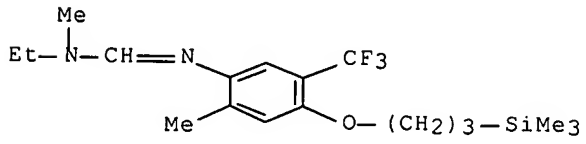
IT **870765-97-2 870765-99-4**
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(fungicidal composition)

RN 870765-97-2 CAPLUS

CN Acetamide, 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)-, mixt. with N-ethyl-N-methyl-N'-[2-methyl-5-(trifluoromethyl)-4-[3-(trimethylsilyl)propoxy]phenyl]methanimidamide (9CI) (CA INDEX NAME)

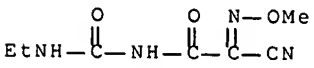
CM 1

CRN 870765-96-1
CMF C18 H29 F3 N2 O Si



CM 2

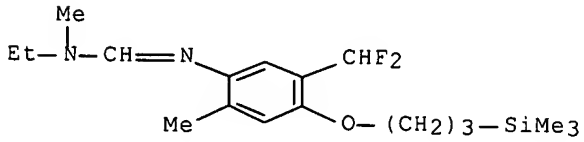
CRN 57966-95-7
CMF C7 H10 N4 O3



RN 870765-99-4 CAPLUS
CN Acetamide, 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)-, mixt. with N'-[5-(difluoromethyl)-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-ethyl-N-methylmethanimidamide (9CI) (CA INDEX NAME)

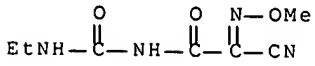
CM 1

CRN 870765-98-3
CMF C18 H30 F2 N2 O Si



CM 2

CRN 57966-95-7
CMF C7 H10 N4 O3



L21 ANSWER 10 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1292167 CAPLUS Full-text
DOCUMENT NUMBER: 144:36369
TITLE: Preparation of quinone substituted quinazoline and quinoline kinase inhibitors for treatment of angiogenesis-related diseases
INVENTOR(S): Floyd, Middleton B., Jr.; Nittoli, Thomas; Wissner, Allan; Dushin, Russell George; Nilakantan, Ramaswamy; Ingalls, Charles; Fraser, Heidi Leigh; Johnson, Bernard Dean
PATENT ASSIGNEE(S): Wyeth, USA
SOURCE: PCT Int. Appl., 195 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

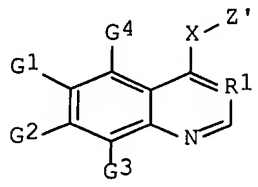
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005115145	A2	20051208	WO 2005-US16800	20050511
WO 2005115145	A3	20060223		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2004-573251P P 20040520
OTHER SOURCE(S): MARPAT 144:36369
ED Entered STN: 09 Dec 2005
GI



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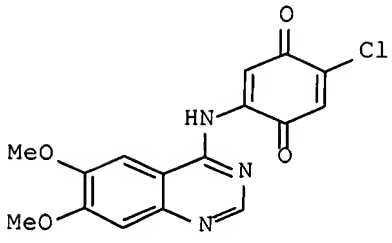


II

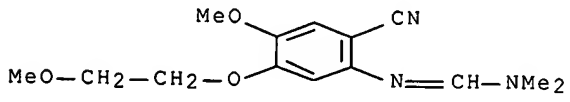
AB Title compds. I [R1 = N, C-CN, CH, C-F, C-Cl, C,Br, C-I; G1-G4 = independently H, halo, alk(en/yn)yl, alkylsulfinyl, NH2 and derivs., etc., with the proviso that G3 or G4 are not -NH-R2; R2 = -CO-C.tplbond.C-R3, -CO-(R3)C:C(R3)2, etc.; R3 = independently H, alkyl, Ph, carboxy, etc.; X = NH, O, S, etc.; Z' = (un)substituted 1,4-benzoquinone, 1,4-naphthoquinone, 7-oxabicyclo[4.1.0]hept-3-ene-2,5-dione; and their pharmaceutically acceptable salts] were prepared as protein kinases, particularly protein tyrosine kinases, inhibitors. I are useful for treatment of diseases that are characterized, at least in part, by excessive, abnormal, or inappropriate angiogenesis, such as cancer, diabetic retinopathy, macular degeneration and rheumatoid arthritis. I inhibit angiogenesis by inhibiting a tyrosine kinase receptor enzyme, specifically

KDR, and binding to the KDR in an irreversible manner. For example, reacting 2-amino-4,5-dimethoxybenzonitrile with DMF di-Me acetal, refluxing of amidine with 4-chloro-2,5-dimethoxyaniline and oxidation of dimethoxy intermediate with ceric ammonium nitrate gave quinazoline II. Quinazoline II (100 nM concentration) gave 83% inhibition of KDR kinase activity. Selected I were effective inhibitors of VEGF-dependent growth factor of HUVEC cells.

IT **870959-52-7P**, N'-[2-Cyano-4-methoxy-5-(2-methoxyethoxy)phenyl]-N,N-dimethylformamidine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of quinone substituted quinazoline and quinoline kinase inhibitors for treatment of angiogenesis-related diseases)

RN 870959-52-7 CAPLUS

CN Methanimidamide, N'-[2-cyano-4-methoxy-5-(2-methoxyethoxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L21 ANSWER 11 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1168543 CAPLUS Full-text

DOCUMENT NUMBER: 144:88235

TITLE: 2-(Quinazolin-4-ylamino)-[1,4]benzoquinones as Covalent-Binding, Irreversible Inhibitors of the Kinase Domain of Vascular Endothelial Growth Factor Receptor-2

AUTHOR(S): Wissner, Allan; Floyd, M. Brawner; Johnson, Bernard D.; Fraser, Heidi; Ingalls, Charles; Nittoli, Thomas; Dushin, Russell G.; Discafani, Carolyn; Nilakantan, Ramaswamy; Marini, Joseph; Ravi, Malini; Cheung, Kinwang; Tan, Xingzhi; Musto, Sylvia; Annable, Tami; Siegel, Marshall M.; Loganzo, Frank

CORPORATE SOURCE: Chemical and Screening Sciences and Oncology Research, Wyeth Research, Pearl River, NY, 10965, USA

SOURCE: Journal of Medicinal Chemistry (2005), 48(24), 7560-7581
CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:88235

ED Entered STN: 03 Nov 2005

AB A series of 2-(quinazolin-4-ylamino)-[1,4]benzoquinone derivs. that function as potent covalent-binding, irreversible inhibitors of the kinase domain of vascular endothelial growth factor receptor-2 (VEGFR-2) has been prepared by ceric ammonium nitrate oxidation of substituted (2,5-dimethoxyphenyl)(6,7-disubstituted-quinazolin-4-yl)amines and by displacement of the chlorine atom of substituted 2-chloro-5-(6,7- disubstituted-quinazolin-4-ylamino)-[1,4]benzoquinones with various amines, anilines, phenols, and alcs. Enzyme studies were conducted in the absence and presence of glutathione and plasma. Several of the compds. inhibit VEGF-stimulated autophosphorylation in intact cells. Kinetic expts. were performed to study the reactivity of selected inhibitors toward glutathione. Reactivities correlated with LUMO energies calculated as avs. of those of individual conformers weighted by the Boltzmann

distribution. These results and mol. modeling were used to rationalize the biol. observations. The compds. behave as non-ATP-competitive inhibitors. Unequivocal evidence, from mass spectral studies, indicates that these inhibitors form a covalent interaction with Cys-1045. One member of this series displays antitumor activity in an in vivo model.

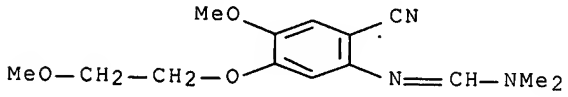
IT **870959-52-7P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 2-(quinazolin-4-ylamino)-[1,4]benzoquinones as covalent-binding, irreversible inhibitors of the kinase domain of VEGFR-2)

RN 870959-52-7 CAPLUS

CN Methanimidamide, N'-[2-cyano-4-methoxy-5-(2-methoxyethoxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 12 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:471844 CAPLUS Full-text
DOCUMENT NUMBER: 143:28318
TITLE: Micronized wood preservative formulations
INVENTOR(S): Leach, Robert M.; Zhang, Jun
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 821,326.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005118280	A1	20050602	US 2004-970446	20041021
US 2004258767	A1	20041223	US 2004-821326	20040409
WO 2006047126	A2	20060504	WO 2005-US37303	20051018
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 2006257578	A1	20061116	US 2006-354726	20060215

PRIORITY APPLN. INFO.: US 2003-461547P P 20030409
US 2003-518994P P 20031111

US 2004-821326	A2	20040409
US 2004-568485P	P	20040506
US 2004-565585P	P	20040427
US 2004-570659P	P	20040513
US 2004-970446	A	20041021
US 2005-126839	A2	20050511

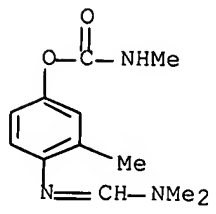
ED Entered STN: 03 Jun 2005

AB The wood preservative compns. comprising micronized particles. The composition comprises dispersions of micronized metal or metal compds. The wood preservative composition comprises an inorg. component comprising a metal or metal compound and organic biocide. When the composition comprises an inorg. component and an organic biocide, the inorg. component or the organic biocide or both are present as micronized particles. When used for preservation of wood, the micronized particles can be observed as uniformly distributed within the wood and there is minimal leaching of the metal and biocide from the wood.

IT **17702-57-7**, Formparanate
RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(micronized wood preservative formulations comprising inorg. metal compds. and organic biocides)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 13 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:141200 CAPLUS Full-text

DOCUMENT NUMBER: 142:254568

TITLE: Methods and compositions for increasing the efficacy of biologically-active ingredients such as antitumor agents

INVENTOR(S): Windsor, J. Brian; Roux, Stan J.; Lloyd, Alan M.; Thomas, Collin E.

PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA

SOURCE: PCT Int. Appl., 243 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005014777	A2	20050217	WO 2003-US32667	20031016
WO 2005014777	A3	20050915		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2502148	A1	20050217	CA 2003-2502148	20031016
AU 2003304398	A1	20050225	AU 2003-304398	20031016
EP 1576150	A2	20050921	EP 2003-816736	20031016
EP 1576150	A3	20051102		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

US 2006276339	A1	20061207	US 2006-531744	20060123
PRIORITY APPLN. INFO.:			US 2002-418803P P	20021016
			WO 2003-US32667 W	20031016

ED Entered STN: 18 Feb 2005

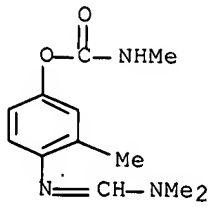
AB The invention provides methods and compns. for modulating the sensitivity of cells to cytotoxic compds. and other active agents. In accordance with the invention, compns. are provided comprising combinations of ectophosphatase inhibitors and active agents. Active agents include antibiotics, fungicides, herbicides, insecticides, chemotherapeutic agents, and plant growth regulators. By increasing the efficacy of active agents, the invention allows use of compns. with lowered concns. of active ingredients.

IT **17702-57-7**

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(methods and compns. for increasing efficacy of biol. active ingredients such as antitumor agents)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 14 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	2004:486399 CAPLUS Full-text
DOCUMENT NUMBER:	141:54353
TITLE:	Pharmaceutical compositions comprising a surfactant and a physiologically tolerable water-soluble acid respectively base, and a basic respectively acidic drug compound, containing a pyrimidine unit, for treating HIV
INVENTOR(S):	Vandecruys, Roger Petrus Gerebern
PATENT ASSIGNEE(S):	Janssen Pharmaceutica N.V., Belg.
SOURCE:	PCT Int. Appl., 138 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004050068	A1	20040617	WO 2002-EP13558	20021129
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002350719	A1	20040623	AU 2002-350719	20021129
CA 2505742	A1	20040617	CA 2003-2505742	20031125
WO 2004050058	A2	20040617	WO 2003-EP50890	20031125
WO 2004050058	A3	20040930		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003294038	A1	20040623	AU 2003-294038	20031125
EP 1567134	A2	20050831	EP 2003-789453	20031125
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BR 2003016532	A	20051004	BR 2003-16532	20031125
CN 1720027	A	20060111	CN 2003-80104619	20031125
JP 2006514635	T	20060511	JP 2004-556332	20031125
IN 2005DN02185	A	20070302	IN 2005-DN2185	20050524
US 2006078609	A1	20060413	US 2005-536542	20050526
NO 2005003143	A	20050627	NO 2005-3143	20050627

PRIORITY APPLN. INFO.:

WO 2002-EP13558	A	20021129
WO 2003-EP50890	W	20031125

ED Entered STN: 17 Jun 2004
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention provides a novel pharmaceutical composition for treating HIV comprising a basic resp. acidic drug compound I, a surfactant and a physiol. tolerable water-soluble acid resp. base in which the acid resp. base:drug compound ratio is at least 1:1 by weight [wherein X = O, NH; Y = NH, NMe; R1 = Me, H; R2 = Me, Cl, Br, OMe, 2-furanyl, etc.; R3 = H, 2-benzofuranyl, 1-naphthalenyl, (un)substituted Ph, CH2CH2CN, CH:CHCN, etc.; R4 = H, NO2, NH2, etc.; their N-oxides, pharmaceutically acceptable addition salts, quaternary

amines, or stereochem. isomeric forms]. Ten pharmaceutical compns. are given. Thus, amination of 4-[(4-chloro-2- pyrimidinyl)amino]benzonitrile (preparation given) with amine II (preparation given) in the presence of K2CO3/CH2Cl2/MeOH at 150° for 1 h gave the title compound III. Selected I displayed pIC50 values in the range 8.0-9.5 for the inhibition of the HIV-induced cytopathic effect.

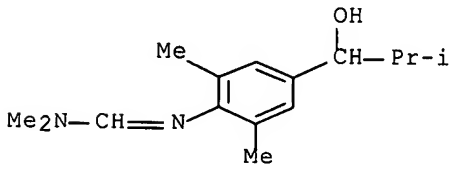
IT **500293-01-6P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of pyrimidine-based anti-HIV agents and their pharmaceutical compns.)

RN 500293-01-6 CAPLUS

CN Methanimidamide, N'-[4-(1-hydroxy-2-methylpropyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 15 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:892742 CAPLUS Full-text

DOCUMENT NUMBER: 139:381249

TITLE: Preparation of amidinylphenyl compounds and their use as fungicides

INVENTOR(S): Tseng, Chi-Ping

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 150 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003093224	A1	20031113	WO 2003-US13371	20030430
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003241327	A1	20031117	AU 2003-241327	20030430
EP 1501789	A1	20050202	EP 2003-731059	20030430
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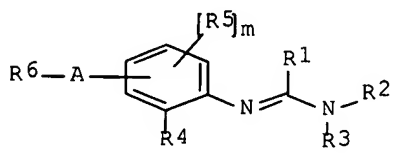
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

BR 2003009599	A	20050301	BR 2003-9599		20030430
CN 1649833	A	20050803	CN 2003-809514		20030430
JP 2005524706	T	20050818	JP 2004-501364		20030430
US 2005182025	A1	20050818	US 2003-510083		20030430
PRIORITY APPLN. INFO.:			US 2002-380095P	P	20020503
			WO 2003-US13371	W	20030430

OTHER SOURCE(S): MARPAT 139:381249
ED Entered STN: 14 Nov 2003
GI



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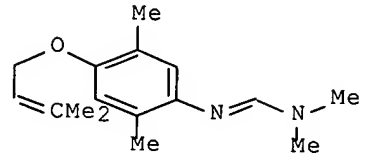

II

AB The title compds. [I; R1 = H, OH, SH, SO3H, CN, etc.; R2 = H, CN, alkyl, carbocyclyl, etc.; R3 = H, alkyl, alkenyl, etc.; or NR2R3 = (un)substituted 3-7 membered heterocyclyl containing one or two addnl. heteroatoms; R4, R5 = alkyl, alkenyl, haloalkyl, etc.; R6 = C5-C21 alkyl, C5-C21 alkenyl, C5-C21 alkynyl, C4-C9 alkoxycarbonyl, C4-C6 alkylaminocarbonyl, C3-C10 dialkylaminocarbonyl or C3-C12 trialkylsilyl, each optionally substituted; or R6 = C1-C4 alkyl or C2-C9 alkylcarbonyl, each substituted with one or more R12; A = a direct bond, O, SOn, or NR10; n = 0-2; m = 0-3; R10 = H, alkyl, alkenyl, etc.; R12 = CO2H, CONH2, NO2, etc.], useful for controlling plant diseases caused by fungal plant pathogens, were prepared Thus, treating N'-(4-hydroxy-2,5-dimethylphenyl)- N,N-dimethylmethanimidamide with NaH in THF followed by addition of 4-bromo-2-methyl-2-butene afforded II which showed 100% control of Puccinia recondita (the causal agent of wheat leaf rust) at 500 g/ha.

IT **623159-78-4P 623159-79-5P 623159-80-8P**
623159-81-9P 623159-83-1P 623159-85-3P
623159-87-5P 623160-00-9P 623160-01-0P
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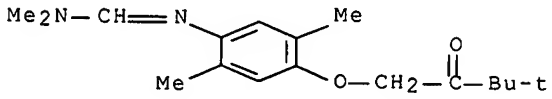
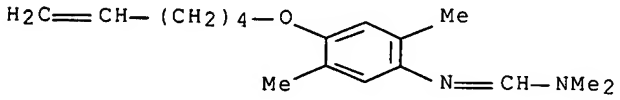
623161-66-0P 623161-67-1P 623161-68-2P
623161-69-3P 623161-71-7P 623161-72-8P
623161-73-9P 623161-74-0P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amidinylphenyl compds. and their use as fungicides)

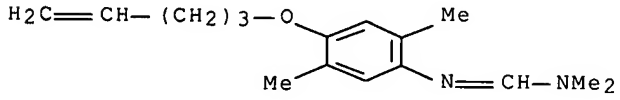
RN 623159-78-4 CAPLUS
CN Methanimidamide, N'-[4-(3,3-dimethyl-2-oxobutoxy)-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



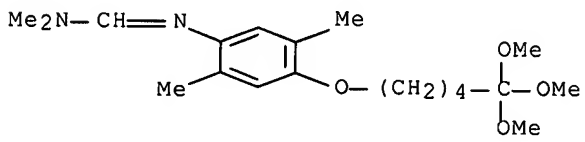
RN 623159-79-5 CAPLUS
CN Methanimidamide, N'-[4-(5-hexenyloxy)-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



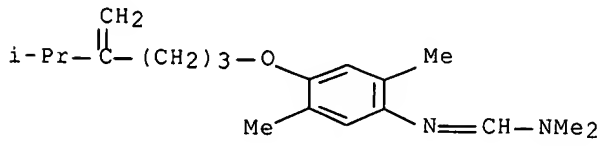
RN 623159-80-8 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-(4-pentenyloxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



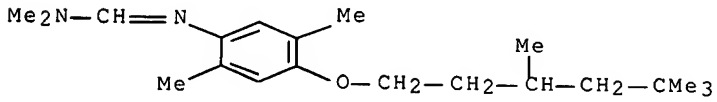
RN 623159-81-9 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[(5,5,5-trimethoxypentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



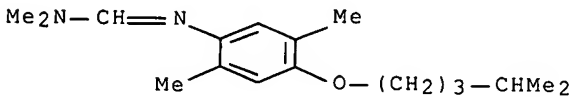
RN 623159-83-1 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[(5-methyl-4-methylenehexyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



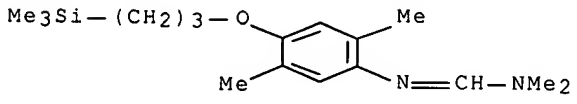
RN 623159-85-3 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[(3,5,5-trimethylhexyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



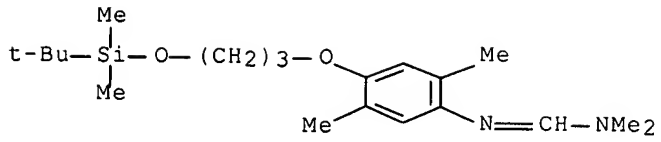
RN 623159-87-5 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



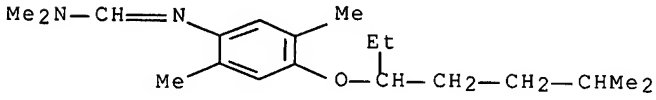
RN 623160-00-9 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



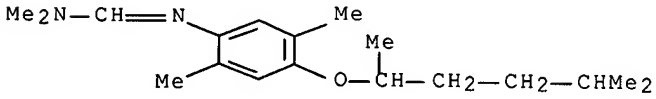
RN 623160-01-0 CAPLUS
CN Methanimidamide, N'-[4-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]propoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



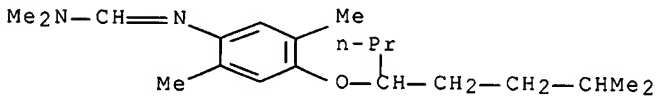
RN 623160-05-4 CAPLUS
CN Methanimidamide, N'-[4-[(1-ethyl-4-methylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



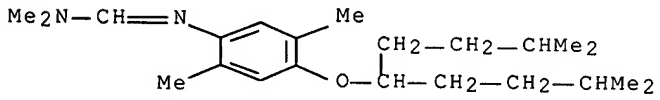
RN 623160-06-5 CAPLUS
CN Methanimidamide, N'-[4-[(1,4-dimethylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 623160-07-6 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[(4-methyl-1-propylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

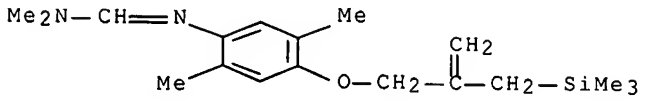


RN 623160-09-8 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[[4-methyl-1-(3-methylbutyl)pentyl]oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

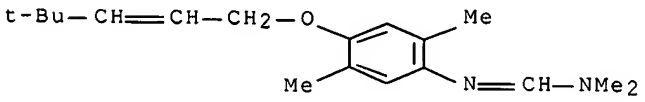


RN 623160-12-3 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[[2-[(trimethylsilyl)methyl]-2-

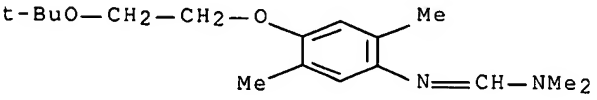
propenyl]oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



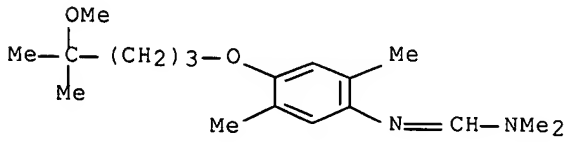
RN 623160-13-4 CAPLUS
CN Methanimidamide, N'-[4-[(4,4-dimethyl-2-pentenyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



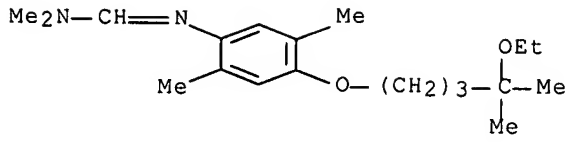
RN 623160-14-5 CAPLUS
CN Methanimidamide, N'-[4-[2-(1,1-dimethylethoxy)ethoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



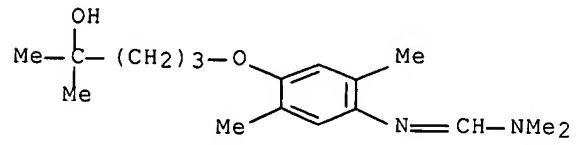
RN 623160-15-6 CAPLUS
CN Methanimidamide, N'-[4-[(4-methoxy-4-methylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



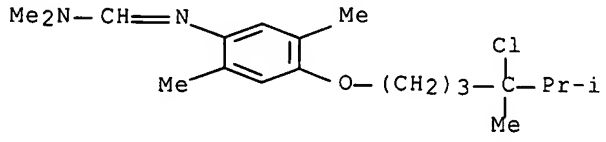
RN 623160-16-7 CAPLUS
CN Methanimidamide, N'-[4-[(4-ethoxy-4-methylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



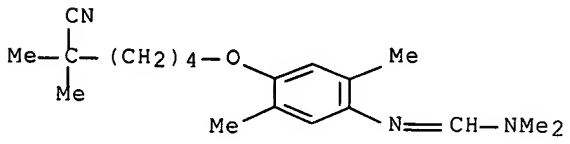
RN 623160-17-8 CAPLUS
CN Methanimidamide, N'-[4-[(4-hydroxy-4-methylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



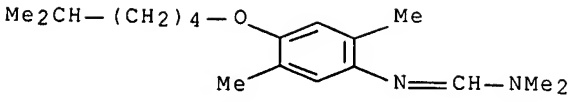
RN 623160-18-9 CAPLUS
CN Methanimidamide, N'-[4-[(4-chloro-4,5-dimethylhexyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



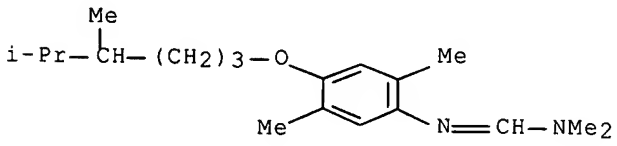
RN 623160-19-0 CAPLUS
CN Methanimidamide, N'-[4-[(5-cyano-5-methylhexyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



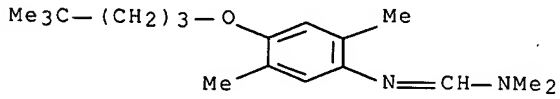
RN 623160-20-3 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[(5-methylhexyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



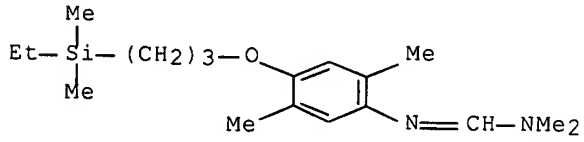
RN 623160-21-4 CAPLUS
CN Methanimidamide, N'-[4-[(4,5-dimethylhexyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



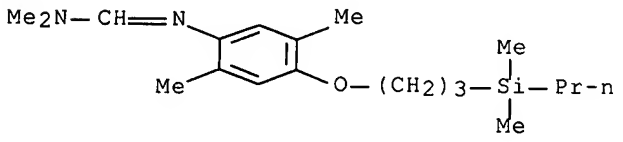
RN 623160-22-5 CAPLUS
CN Methanimidamide, N'-[4-[(4,4-dimethylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



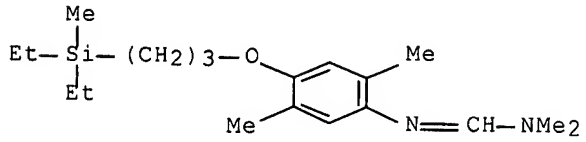
RN 623160-23-6 CAPLUS
CN Methanimidamide, N'-[4-[3-(ethyldimethylsilyl)propoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



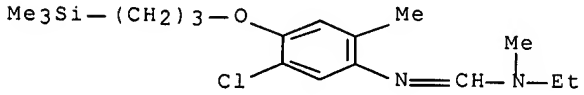
RN 623160-24-7 CAPLUS
CN Methanimidamide, N'-[4-[3-(dimethylpropylsilyl)propoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



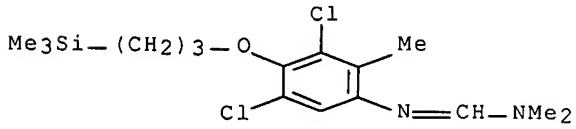
RN 623160-25-8 CAPLUS
CN Methanimidamide, N'-[4-[3-(diethylmethylsilyl)propoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



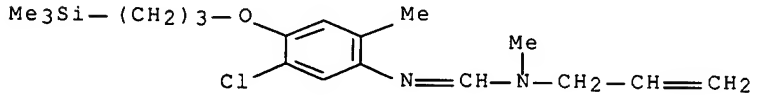
RN 623160-26-9 CAPLUS
CN Methanimidamide, N'-[5-chloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



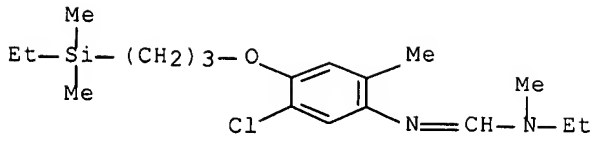
RN 623160-27-0 CAPLUS
CN Methanimidamide, N'-[3,5-dichloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



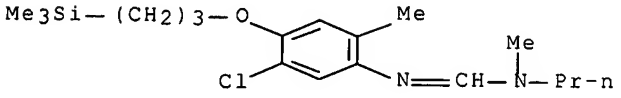
RN 623160-28-1 CAPLUS
CN Methanimidamide, N'-[5-chloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl-N-2-propenyl- (9CI) (CA INDEX NAME)



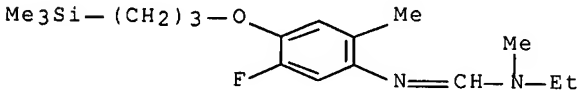
RN 623160-29-2 CAPLUS
CN Methanimidamide, N'-[5-chloro-4-[3-(ethyldimethylsilyl)propoxy]-2-methylphenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



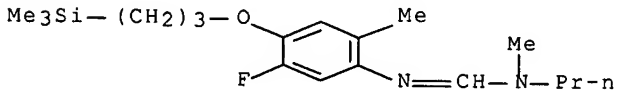
RN 623160-30-5 CAPLUS
CN Methanimidamide, N'-[5-chloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl-N-propyl- (9CI) (CA INDEX NAME)



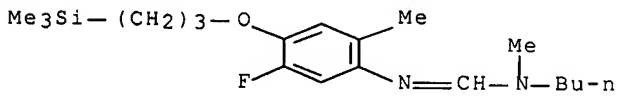
RN 623160-31-6 CAPLUS
CN Methanimidamide, N-ethyl-N'-[5-fluoro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl- (9CI) (CA INDEX NAME)



RN 623160-32-7 CAPLUS
CN Methanimidamide, N'-[5-fluoro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl-N-propyl- (9CI) (CA INDEX NAME)

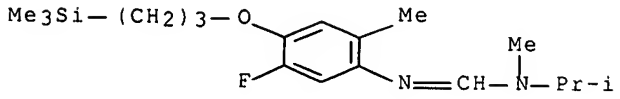


RN 623160-34-9 CAPLUS
CN Methanimidamide, N-butyl-N'-[5-fluoro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl- (9CI) (CA INDEX NAME)

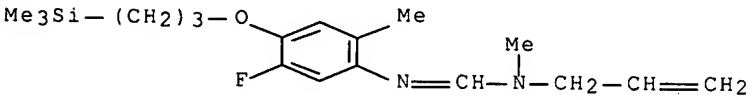


RN 623160-35-0 CAPLUS
CN Methanimidamide, N'-[5-fluoro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl

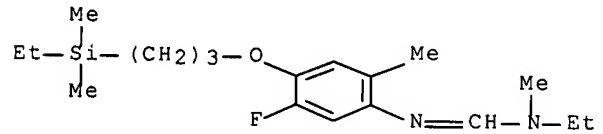
]-N-methyl-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



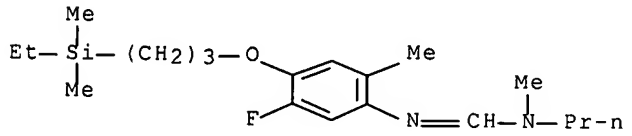
RN 623160-36-1 CAPLUS
CN Methanimidamide, N'-[5-fluoro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl-N-2-propenyl- (9CI) (CA INDEX NAME)



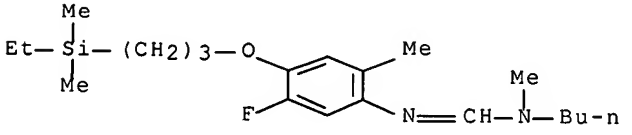
RN 623160-38-3 CAPLUS
CN Methanimidamide, N-ethyl-N'-[4-[3-(ethyldimethylsilyl)propoxy]-5-fluoro-2-methylphenyl]-N-methyl- (9CI) (CA INDEX NAME)



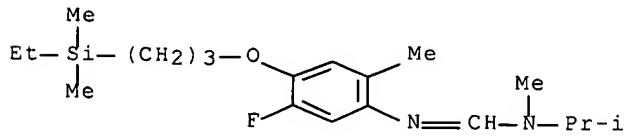
RN 623160-39-4 CAPLUS
CN Methanimidamide, N'-[4-[3-(ethyldimethylsilyl)propoxy]-5-fluoro-2-methylphenyl]-N-methyl-N-propyl- (9CI) (CA INDEX NAME)



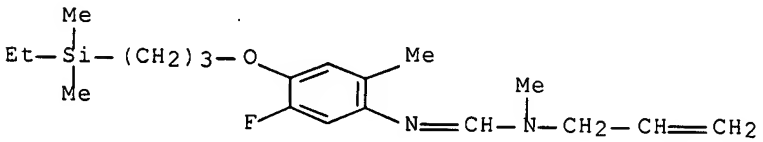
RN 623160-40-7 CAPLUS
CN Methanimidamide, N-butyl-N'-[4-[3-(ethyldimethylsilyl)propoxy]-5-fluoro-2-methylphenyl]-N-methyl- (9CI) (CA INDEX NAME)



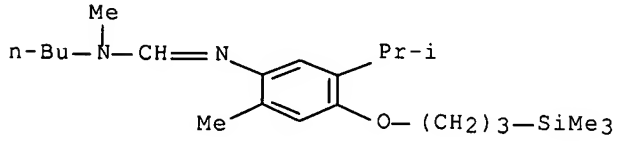
RN 623160-41-8 CAPLUS
CN Methanimidamide, N'-[4-[3-(ethyldimethylsilyl)propoxy]-5-fluoro-2-methylphenyl]-N-methyl-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



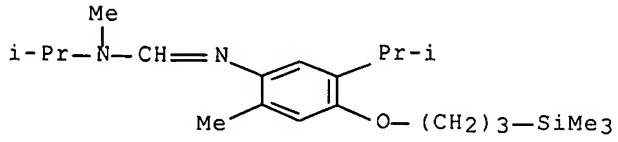
RN 623160-42-9 CAPLUS
CN Methanimidamide, N'-[4-[3-(ethyldimethylsilyl)propoxy]-5-fluoro-2-methylphenyl]-N-methyl-N-2-propenyl- (9CI) (CA INDEX NAME)



RN 623160-45-2 CAPLUS
CN Methanimidamide, N-butyl-N-methyl-N'-[2-methyl-5-(1-methylethyl)-4-[3-(trimethylsilyl)propoxy]phenyl]- (9CI) (CA INDEX NAME)

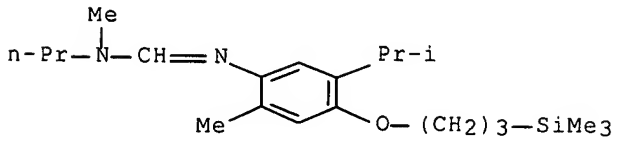


RN 623160-46-3 CAPLUS
CN Methanimidamide, N-methyl-N-(1-methylethyl)-N'-[2-methyl-5-(1-methylethyl)-4-[3-(trimethylsilyl)propoxy]phenyl]- (9CI) (CA INDEX NAME)

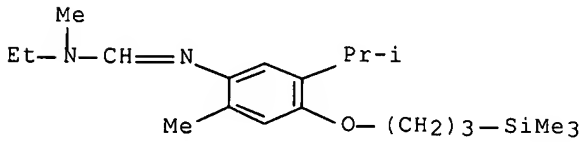


RN 623160-47-4 CAPLUS
CN Methanimidamide, N-methyl-N'-[2-methyl-5-(1-methylethyl)-4-[3-

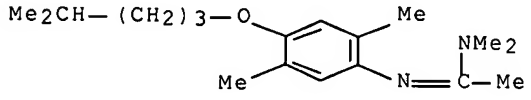
(trimethylsilyl)propoxy]phenyl]-N-propyl- (9CI) (CA INDEX NAME)



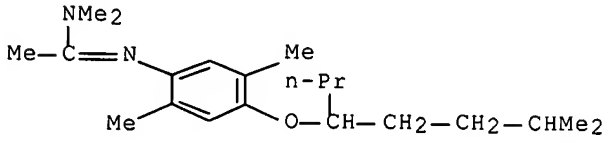
RN 623160-48-5 CAPLUS
CN Methanimidamide, N-ethyl-N-methyl-N'-[2-methyl-5-(1-methylethyl)-4-[3-(trimethylsilyl)propoxy]phenyl]- (9CI) (CA INDEX NAME)



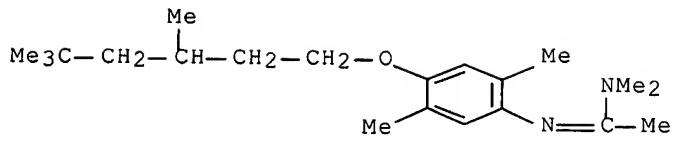
RN 623160-68-9 CAPLUS
CN Ethanimidamide, N'-[2,5-dimethyl-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



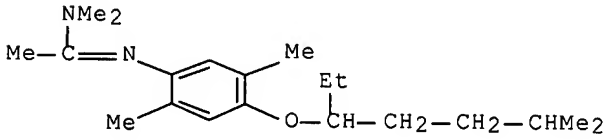
RN 623160-69-0 CAPLUS
CN Ethanimidamide, N'-[2,5-dimethyl-4-[(4-methyl-1-propylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



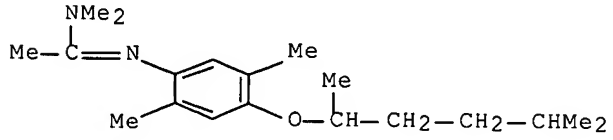
RN 623160-70-3 CAPLUS
CN Ethanimidamide, N'-[2,5-dimethyl-4-[(3,5,5-trimethylhexyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



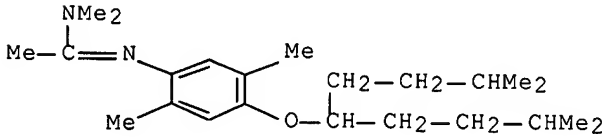
RN 623160-72-5 CAPLUS
CN Ethanimidamide, N'-[4-[(1-ethyl-4-methylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



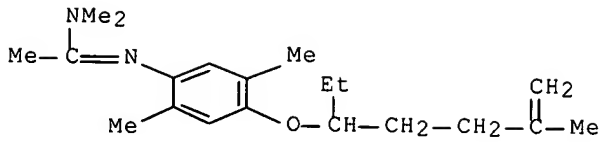
RN 623160-74-7 CAPLUS
CN Ethanimidamide, N'-[4-[(1,4-dimethylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



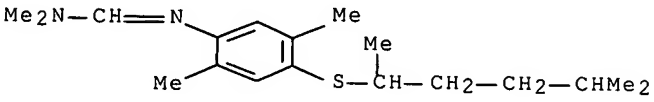
RN 623160-75-8 CAPLUS
CN Ethanimidamide, N'-[2,5-dimethyl-4-[[4-methyl-1-(3-methylbutyl)pentyl]oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



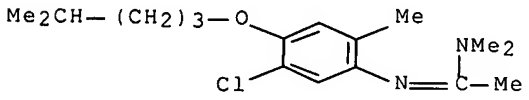
RN 623160-76-9 CAPLUS
CN Ethanimidamide, N'-[4-[(1-ethyl-4-methyl-4-pentenyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



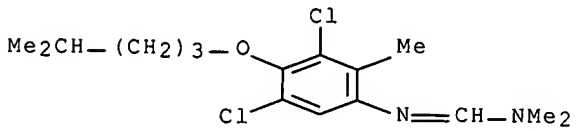
RN 623160-77-0 CAPLUS
CN Methanimidamide, N'-[4-[(1,4-dimethylpentyl)thio]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



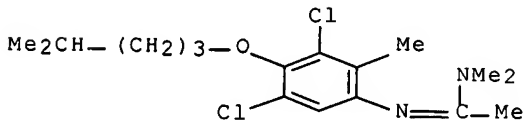
RN 623160-82-7 CAPLUS
CN Ethanimidamide, N'-[5-chloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



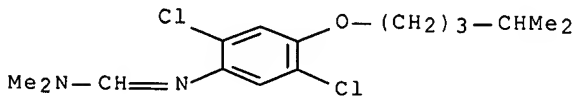
RN 623160-88-3 CAPLUS
CN Methanimidamide, N'-[3,5-dichloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



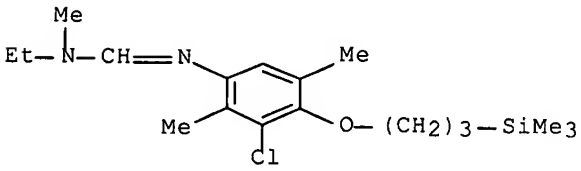
RN 623160-90-7 CAPLUS
CN Ethanimidamide, N'-[3,5-dichloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



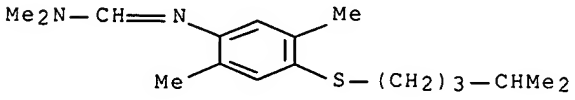
RN 623161-00-2 CAPLUS
CN Methanimidamide, N'-[2,5-dichloro-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



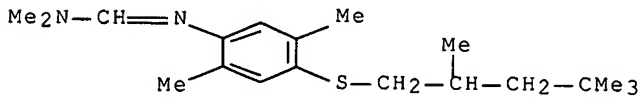
RN 623161-12-6 CAPLUS
CN Methanimidamide, N'-[3-chloro-2,5-dimethyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



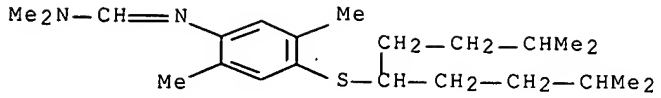
RN 623161-27-3 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[(4-methylpentyl)thio]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



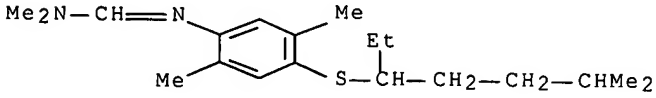
RN 623161-29-5 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[(2,4,4-trimethylpentyl)thio]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



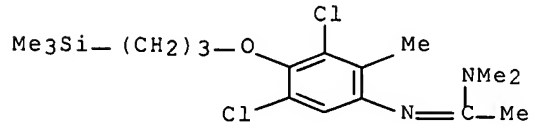
RN 623161-30-8 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[[4-methyl-1-(3-methylbutyl)pentyl]thio]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



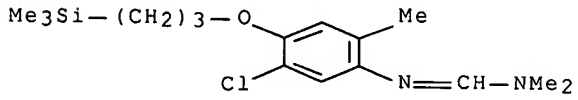
RN 623161-32-0 CAPLUS
CN Methanimidamide, N'-[4-[(1-ethyl-4-methylpentyl)thio]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



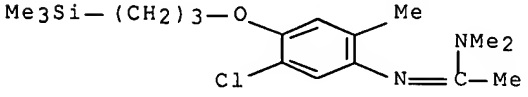
RN 623161-40-0 CAPLUS
CN Ethanimidamide, N'-[3,5-dichloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



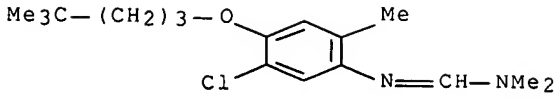
RN 623161-41-1 CAPLUS
CN Methanimidamide, N'-[5-chloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



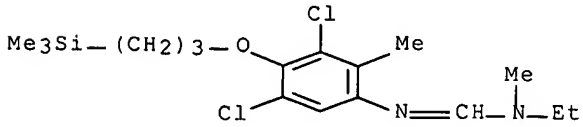
RN 623161-42-2 CAPLUS
CN Ethanimidamide, N'-[5-chloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



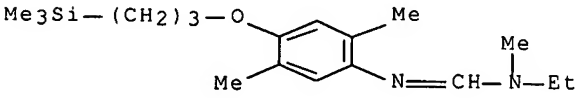
RN 623161-44-4 CAPLUS
CN Methanimidamide, N'-[5-chloro-4-[(4,4-dimethylpentyl)oxy]-2-methylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



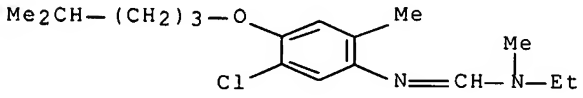
RN 623161-49-9 CAPLUS
CN Methanimidamide, N'-[3,5-dichloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



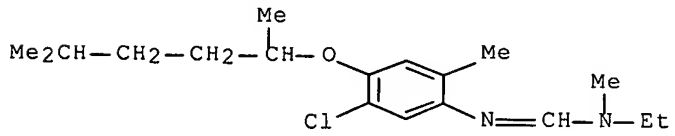
RN 623161-62-6 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



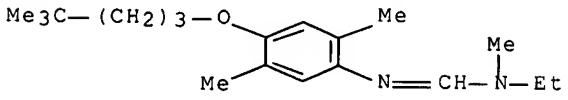
RN 623161-63-7 CAPLUS
CN Methanimidamide, N'-[5-chloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



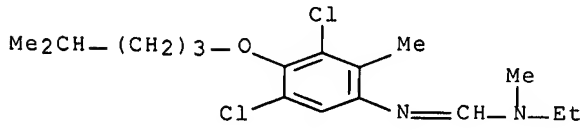
RN 623161-64-8 CAPLUS
CN Methanimidamide, N'-[5-chloro-4-[(1,4-dimethylpentyl)oxy]-2-methylphenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



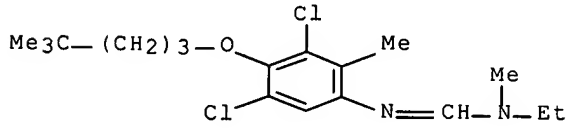
RN 623161-65-9 CAPLUS
CN Methanimidamide, N'-[4-[(4,4-dimethylpentyl)oxy]-2,5-dimethylphenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



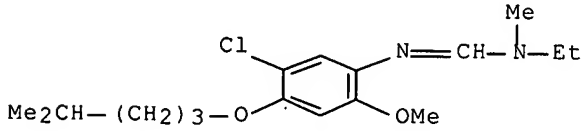
RN 623161-66-0 CAPLUS
CN Methanimidamide, N'-[3,5-dichloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



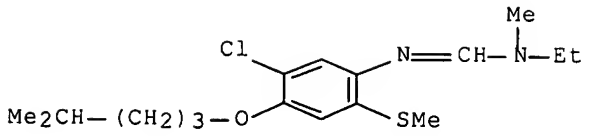
RN 623161-67-1 CAPLUS
CN Methanimidamide, N'-[3,5-dichloro-4-[(4,4-dimethylpentyl)oxy]-2-methylphenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



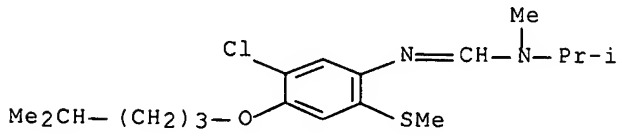
RN 623161-68-2 CAPLUS
CN Methanimidamide, N'-[5-chloro-2-methoxy-4-[(4-methylpentyl)oxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



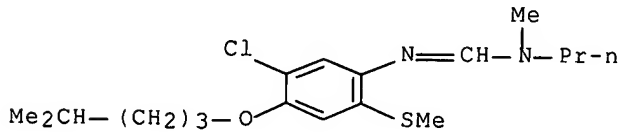
RN 623161-69-3 CAPLUS
CN Methanimidamide, N'-[5-chloro-4-[(4-methylpentyl)oxy]-2-(methylthio)phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



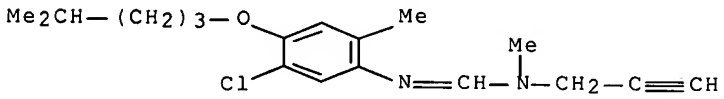
RN 623161-71-7 CAPLUS
CN Methanimidamide, N'-[5-chloro-4-[(4-methylpentyl)oxy]-2-(methylthio)phenyl]-N-methyl-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



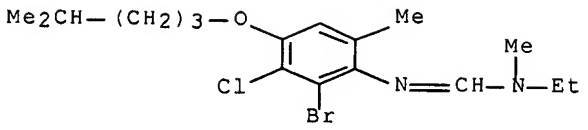
RN 623161-72-8 CAPLUS
CN Methanimidamide, N'-[5-chloro-4-[(4-methylpentyl)oxy]-2-(methylthio)phenyl]-N-methyl-N-propyl- (9CI) (CA INDEX NAME)



RN 623161-73-9 CAPLUS
CN Methanimidamide, N'-[5-chloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N-methyl-N-2-propynyl- (9CI) (CA INDEX NAME)



RN 623161-74-0 CAPLUS
CN Methanimidamide, N'-[2-bromo-3-chloro-6-methyl-4-[(4-methylpentyl)oxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

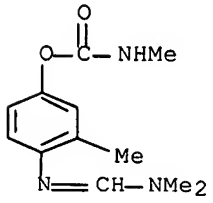
L21 ANSWER 16 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:836400 CAPLUS Full-text
DOCUMENT NUMBER: 139:318718
TITLE: Fiber-supported pesticidal compositions
INVENTOR(S): Hoffmann, Michael P.; Gardner, Jeffrey; Curtis, Paul D.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 41 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003198659	A1	20031023	US 2002-281088	20021025
PRIORITY APPLN. INFO.:			US 2001-345349P P	20011025

ED Entered STN: 24 Oct 2003

AB The invention provides fibrous pest deterrents that combine the useful properties of a phys. barrier in the form of a nonwoven fibrous matrix with a chemical deterrent such as a pesticide, behavior-modifying compound or a pest repellent. The use of such fibrous pest deterrents protects plants, animals and structures in both agricultural and nonagricultural settings from damage inflicted by pests. Unlike traditional pesticides, the behavior-modifying compound, pesticide or chemical deterrent of the invention is adsorbed or attached to a fibrous matrix, and so it is not so readily dispersed into the environment. Hence, use of the fibrous pest deterrents can reduce the levels of pesticides that inadvertently contaminate nontarget areas and pollute water supplies.

IT **17702-57-7**, Formparanate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(fiber-supported pesticidal composition)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



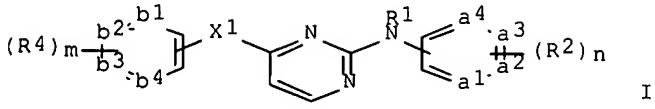
L21 ANSWER 17 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:154426 CAPLUS Full-text
DOCUMENT NUMBER: 138:205077
TITLE: Preparation of pyrimidines as HIV inhibitors.
INVENTOR(S): Guillemont, Jerome Emile Georges; Palandjian, Patrice; De Jonge, Marc Rene; Koymans, Lucien Maria Henricus; Vinkers, Hendrik Maarten; Daeyaert, Frederik Frans Desire; Heeres, Jan; Van Aken, Koen Jeanne Alfons; Lewi, Paulus Joannes; Janssen, Paul Adriaan Jan
PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.
SOURCE: PCT Int. Appl., 126 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016306	A1	20030227	WO 2002-EP8953	20020809
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2452217	A1	20030227	CA 2002-2452217	20020809
AU 2002329238	A1	20030303	AU 2002-329238	20020809
EP 1419152	A1	20040519	EP 2002-764839	20020809
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002011909	A	20040824	BR 2002-11909	20020809
CN 1541215	A	20041027	CN 2002-815920	20020809
HU 200401346	A2	20041228	HU 2004-1346	20020809
JP 2005507380	T	20050317	JP 2003-521229	20020809
NZ 530951	A	20051028	NZ 2002-530951	20020809
US 2004198739	A1	20041007	US 2004-485636	20040203
US 7125879	B2	20061024		
IN 2004DN00265	A	20050401	IN 2004-DN265	20040206
NO 2004000633	A	20040312	NO 2004-633	20040212
ZA 2004001159	A	20050512	ZA 2004-1159	20040212
US 2006111379	A1	20060525	US 2005-219163	20050902
US 2006252764	A1	20061109	US 2006-474855	20060626

PRIORITY APPLN. INFO.:		
EP 2001-203090	A	20010813
EP 2002-77748	A	20020610
WO 2002-EP8953	W	20020809
EP 2003-103275	A	20030903
EP 2003-103319	A	20030908
EP 2003-103335	A	20030910
EP 2003-103668	A	20031002
US 2004-485636	A2	20040203
MY 2004-3578	A	20040902
WO 2004-EP52028	A	20040903

EP 2005-101467 A 20050225

OTHER SOURCE(S): MARPAT 138:205077
ED Entered STN: 28 Feb 2003
GI

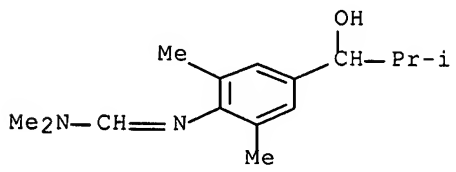


I

AB Title compds. [I; a1:a2a3:a4, b1:b2b3:b4 = atoms to form Ph, pyridyl, pyrimidinyl, pyrazinyl, pyridazinyl rings; n = 0-5; m = 1-4; R1 = H, aryl, CHO, alkylcarbonyl, alkyl, alkyloxycarbonyl, substituted alkyl, alkylcarbonyl; R2 = OH, halo, (substituted) alkyl, cycloalkyl, alkenyl, alkynyl, alkoxy, alkoxycarbonyl, carboxyl, cyano, NO2, amino, polyhalomethyl, polyhalomethoxy, polyhalomethylthio, SOpR6, NHSOpR6, COR6, NHCOH, CONHNH2, NHCOR6, C(:NH)R6, 5-membered heterocycle; X1 = NR5, NHNH, N:N, O, CO, alkanediyl, CH(OH), S, SOp, X2-alkanediyl, alkanediyl-X2; X2 = NR5, NHNH, N:N, O, CO, CH(OH), S, SOp; R3 = NHR13, NR13R14, CONHR13, CONR13R14, COR15, CH:NNHCOR16, substituted alkyl, (substituted) alkoxyalkyl, substituted alkenyl, alkynyl, alkyl substituted with OH and a second substituent, C(:NOR8)-alkyl, R7, X3R7; R4 = halo, OH, alkyl, cycloalkyl, alkoxy, cyano, nitro, polyhaloalkyl, polyhaloalkoxy, aminocarbonyl, alkyloxycarbonyl, alkylcarbonyl, CHO, amino; R5 = H, aryl, CHO, alkylcarbonyl, alkyl, alkoxycarbonyl, etc.; R6 = alkyl, amino, polyhaloalkyl; R7 = mono-, bi-, or tricyclic (aromatic) carbocyclyl, heterocyclyl; R13, R14 = alkyl, alkenyl, alkynyl optionally substituted by cyano, aminocarbonyl; R15 = cyanoalkyl, aminocarbonylalkyl; R16 = R15, R7; p = 1, 2], were prepared Thus, 4-[(4-chloro-2-pyrimidinyl)amino]benzonitril e (preparation given) and 4-(2-cyanoethenyl)-2,6-dimethylaniline were stirred together at 150° for 1 h to give 4-[[4-[[4-(2-cyanoethenyl)-2,6- dimethylphenyl]amino]-2-pyrimidinyl]amino]benzonitrile. The latter inhibited HIV-induced cytopathic effect in MT-4 cells with pIC50 = 9.4.

IT **500293-01-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrimidines as HIV inhibitors)

RN 500293-01-6 CAPLUS
CN Methanimidamide, N'-[4-(1-hydroxy-2-methylpropyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



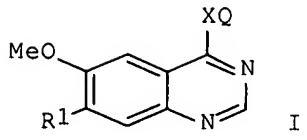
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 18 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:10468 CAPLUS Full-text
DOCUMENT NUMBER: 136:85826
TITLE: Preparation of substituted quinazoline derivatives and their use as inhibitors of AURORA-2 kinase
INVENTOR(S): Mortlock, Andrew; Jung, Frederic
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.
SOURCE: PCT Int. Appl., 249 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002000649	A1	20020103	WO 2001-SE1450	20010621
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2412592	A1	20020103	CA 2001-2412592	20010621
EP 1299381	A1	20030409	EP 2001-944061	20010621
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001011754	A	20030429	BR 2001-11754	20010621
HU 200301236	A2	20031028	HU 2003-1236	20010621
JP 2004501914	T	20040122	JP 2002-505773	20010621
CN 1496364	A	20040512	CN 2001-814620	20010621
EE 200200715	A	20040816	EE 2002-715	20010621
NZ 522696	A	20040827	NZ 2001-522696	20010621
RU 2283311	C2	20060910	RU 2003-102389	20010621
IN 2002MN01598	A	20041211	IN 2002-MN1598	20021112
ZA 2002009412	A	20040219	ZA 2002-9412	20021119
BG 107376	A	20030930	BG 2002-107376	20021211
NO 2002006010	A	20021213	NO 2002-6010	20021213
US 2003187002	A1	20031002	US 2002-311916	20021216
US 6919338	B2	20050719		
US 2006046987	A1	20060302	US 2005-70057	20050302

PRIORITY APPLN. INFO.:
EP 2000-401842 A 20000628
WO 2001-SE1450 W 20010621
US 2002-311916 A1 20021216

OTHER SOURCE(S): MARPAT 136:85826
ED Entered STN: 04 Jan 2002
GI



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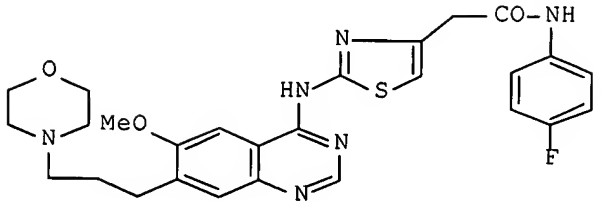


II

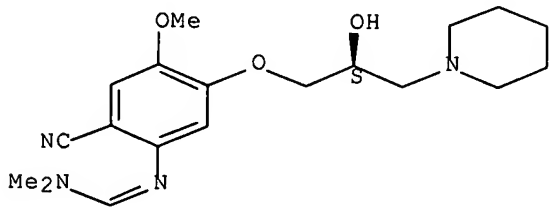
AB The title compds. [I; X = O, S, S:O, SO2, NR; R = H, C1-6alkyl; R1 = OCH3, 3-(4-morpholinyl)propoxy, N-methylpiperidine-4-ylmethoxy, 3-(N-methylpiperazine-4-yl)propoxy, 3-(pyrrolidine-1-yl)propoxy, (CH3)2N(CH2)3O, etc.; Q = (un)substituted 5-membered heteroarom.], pharmaceutically acceptable salts, in vivo hydrolysable esters, and amides are prepared as AURORA-2 kinase inhibitors in warm blooded animals. The title compds. together with pharmaceutical compns. containing them are also described and claimed. Thus, the title compound II was prepared and tested in vitro for the ability to arrest MCF7 cells in specific phases of the cell cycle.

IT **385785-14-8P 385785-21-7P 385785-22-8P**
385785-24-0P 385785-25-1P 385785-29-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of quinazoline derivs. and use as inhibitors of AURORA-2 kinase)

RN 385785-14-8 CAPLUS

CN Methanimidamide, N'-[2-cyano-5-[(2S)-2-hydroxy-3-(1-piperidinyl)propoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

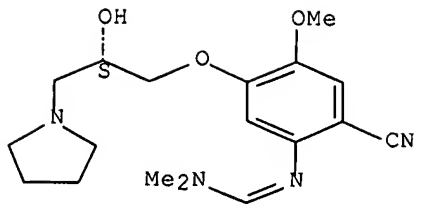
Absolute stereochemistry.
Double bond geometry unknown.



RN 385785-21-7 CAPLUS

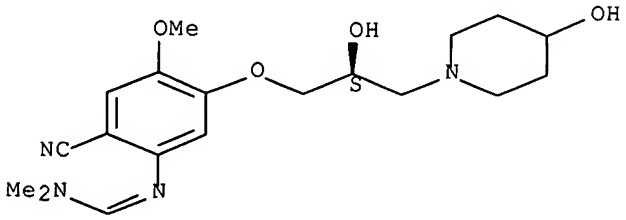
CN Methanimidamide, N'-[2-cyano-5-[(2S)-2-hydroxy-3-(1-pyrrolidinyl)propoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



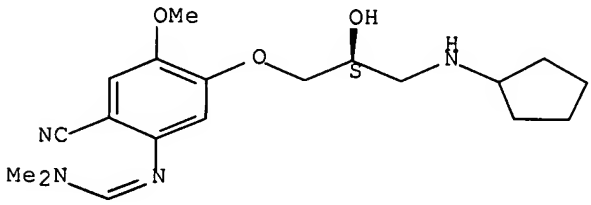
RN 385785-22-8 CAPLUS
CN Methanimidamide, N'-[2-cyano-5-[(2S)-2-hydroxy-3-(4-hydroxy-1-piperidinyl)propoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



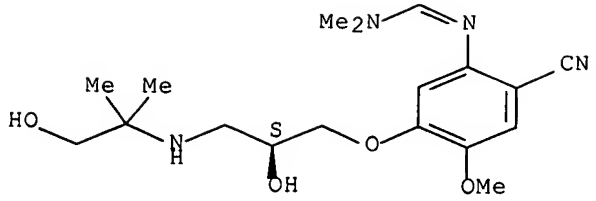
RN 385785-24-0 CAPLUS
CN Methanimidamide, N'-[2-cyano-5-[(2S)-3-(cyclopentylamino)-2-hydroxypropoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



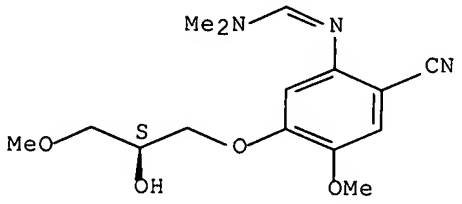
RN 385785-25-1 CAPLUS
CN Methanimidamide, N'-[2-cyano-5-[(2S)-2-hydroxy-3-[(2-hydroxy-1,1-dimethylethyl)amino]propoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 385785-29-5 CAPLUS
CN Methanimidamide, N'-[2-cyano-5-[(2S)-2-hydroxy-3-methoxypropoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



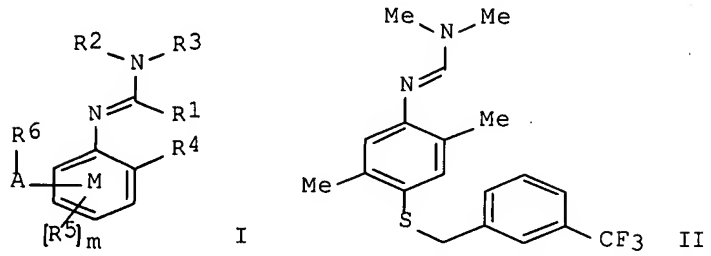
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 19 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:553541 CAPLUS Full-text
DOCUMENT NUMBER: 133:163952
TITLE: Preparation of N2-phenylamidines as fungicides
INVENTOR(S): Charles, Mark David; Franke, Wilfried; Green, David Eric; Hough, Thomas Lawley; Mitchell, Dale Robert; Simpson, Donald James; Atherall, John Frederick
PATENT ASSIGNEE(S): Hoechst Schering Agrevo G.m.b.H., Germany
SOURCE: PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000046184	A1	20000810	WO 2000-GB345	20000204
W: AU, BR, CA, CN, CZ, HU, IL, IN, JP, KR, MX, RU, TR, UA, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2360943	A1	20000810	CA 2000-2360943	20000204
CA 2360943	C	20060418		
EP 1150944	A1	20011107	EP 2000-901791	20000204
EP 1150944	B1	20030820		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

TR 200102237	T2	20011221	TR 2001-2237		20000204
BR 2000009314	A	20020213	BR 2000-9314		20000204
HU 200105098	A2	20020429	HU 2001-5098		20000204
JP 2002536354	T	20021029	JP 2000-597256		20000204
AT 247629	T	20030915	AT 2000-901791		20000204
AU 768156	B2	20031204	AU 2000-23088		20000204
PT 1150944	T	20031231	PT 2000-901791		20000204
ES 2200816	T3	20040316	ES 2000-901791		20000204
RU 2234504	C2	20040820	RU 2001-124664		20000204
US 6893650	B1	20050517	US 2001-890775		20000204
ZA 2001005845	A	20021016	ZA 2001-5845		20010716
IN 2001DN00764	A	20070112	IN 2001-DN764		20010827
HK 1043358	A1	20050506	HK 2002-105179		20020712
PRIORITY APPLN. INFO.:			GB 1999-2592	A	19990206
			WO 2000-GB345	W	20000204

OTHER SOURCE(S): MARPAT 133:163952
ED Entered STN: 11 Aug 2000
GI

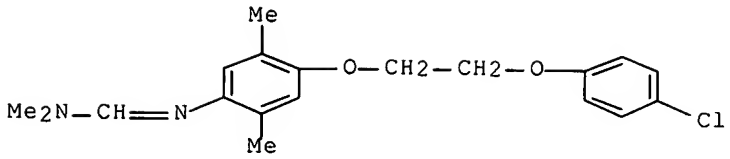


AB The title compds. [I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3 = R1, CN, acyl, etc.; R2 and R3, or R2 and R1, together with their interconnecting atoms may form (un)substituted ring; R4 = alkyl, alkenyl, alkynyl, etc.; m = 0-3; when present R5 = R4; R6 = (un)substituted carbo- or heterocyclyl; A = a direct bond, O, C.tplbond.C, etc.; AR6 and R5 together with benzene ring M form an (un)substituted fused ring system], useful as fungicides, were prepared E.g., a 3-step preparation of the formamidine II which showed moderate to total control against Erysiphe graminis f. sp. Tritici at 500 ppm (w/v) or less, was given.

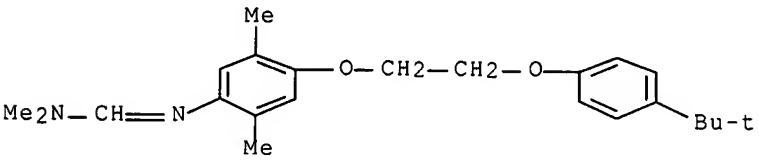
IT **287940-59-4P 287940-60-7P 287940-61-8P**
287940-64-1P 287940-65-2P 287940-66-3P
287940-68-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N2-phenylamidines as fungicides)

RN 287940-59-4 CAPLUS

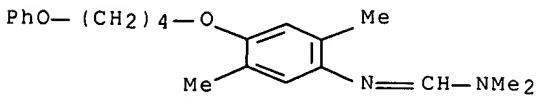
CN Methanimidamide, N'-[4-[2-(4-chlorophenoxy)ethoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



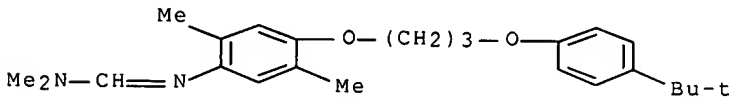
RN 287940-60-7 CAPLUS
CN Methanimidamide, N'-[4-[2-[4-(1,1-dimethylethyl)phenoxy]ethoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



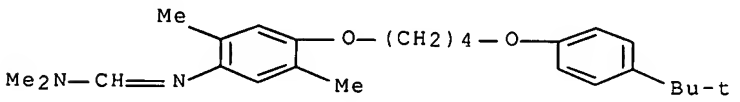
RN 287940-61-8 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-(4-phenoxybutoxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



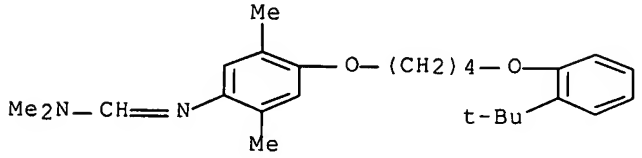
RN 287940-64-1 CAPLUS
CN Methanimidamide, N'-[4-[3-[4-(1,1-dimethylethyl)phenoxy]propoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



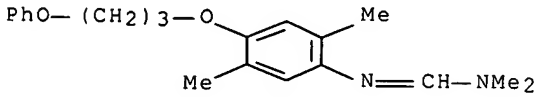
RN 287940-65-2 CAPLUS
CN Methanimidamide, N'-[4-[4-[4-(1,1-dimethylethyl)phenoxy]butoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 287940-66-3 CAPLUS
CN Methanimidamide, N'-[4-[4-[2-(1,1-dimethylethyl)phenoxy]butoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 287940-68-5 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-(3-phenoxypropoxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



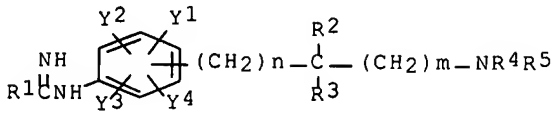
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 20 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:1447 CAPLUS Full-text
DOCUMENT NUMBER: 128:61342
TITLE: Preparation of benzene derivatives having NOS inhibitory activity
INVENTOR(S): Emura, Takashi; Kimura, Nobuaki; Nagafuji, Toshiaki
PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan; Emura, Takashi; Kimura, Nobuaki; Nagafuji, Toshiaki
SOURCE: PCT Int. Appl., 101 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9746515	A1	19971211	WO 1997-JP1881	19970603
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, HU, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9729781	A	19980105	AU 1997-29781	19970603
JP 10095762	A	19980414	JP 1997-145197	19970603
PRIORITY APPLN. INFO.:			JP 1996-178402 A	19960604
			JP 1996-235747 A	19960802

WO 1997-JP1881 W 19970603

OTHER SOURCE(S): MARPAT 128:61342
ED Entered STN: 02 Jan 1998
GI

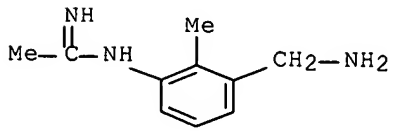


I

AB The title compds. (I; R1 = optionally substituted lower alkyl; R2-R5 = H or optionally substituted lower alkyl; Y1-Y4 = H, halo, optionally substituted lower alkyl; n, m = 0 or 1), possible tautomers, stereoisomers and optical isomers thereof, and pharmaceutically acceptable salts thereof are prepared I have potent inhibitory effects on nitrogen monoxide synthetases (NOS) and are useful as remedies for diseases such as cerebrovascular disorders and head injury. Thus, m-H2NC6H4CH2NHCO2CMe3 (preparation given) was reacted with C6H5CH2OCON:C(OEt)CH2Et and then treated with CF3CO2H to give the title compound m-(H2NCH2)C6H4NHC(:NH)CH2Et.2HCl, which showed inhibitory activity against NOS.

IT **200277-64-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzene derivs. having NOS inhibitory activity)

RN 200277-64-1 CAPLUS
CN Ethanimidamide, N-[3-(aminomethyl)-2-methylphenyl]-, dihydrochloride (9CI) (CA INDEX NAME)



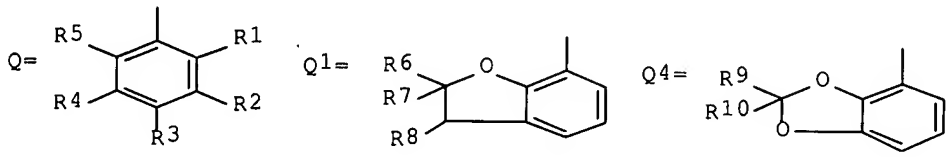
●2 HCl

L21 ANSWER 21 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:664788 CAPLUS Full-text
DOCUMENT NUMBER: 125:300474
TITLE: Preparation of N-(carboxyalkyl)carbamate derivatives as carbamate haptens for antigens and for production of carbamate-specific antibodies and method for determination of agrochemical carbamates
INVENTOR(S): Morimune, Kosuke; Kawada, Michasu; Ookawa, Hideo
PATENT ASSIGNEE(S): Otsuka Kagaku Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08231591	A	19960910	JP 1995-39592	19950228

PRIORITY APPLN. INFO.: JP 1995-39592 19950228
OTHER SOURCE(S): MARPAT 125:300474
ED Entered STN: 11 Nov 1996
GI



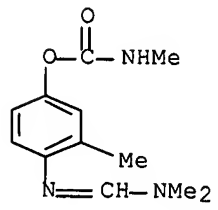
AB AO2CNH(CH2)nCO2H [I; n =2-5; A = 5- or 6-membered heterocycle-containing aromatic group containing at least one heteroatom selected form O, N, and S, preferably Q - Q2 or R11R12C:N; R1 - R7, R9 - R12 = H, halo, NO2, NH2, N-mono- or di(C1-6 alkyl)amino, cyano, OH, SH, C1-6 alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkoxycarbonyl, haloalkoxy, or haloalkylthio, C2-7 alkoxyalkyl, C2-8 alkoxyalkoxy, C2-7 alkylthioalkyl, CH2N3, CO2H, CONH2, etc.; or CR11R12 forms a heterocyclyl; R8 = H, C1-6 alkyl, OH, oxo; n = 2-5] are prepared An antigen comprises a conjugate of said carbamate I with a protein which is selected from globulins of pumpkin seed or hemp seed, hemocyanin of slit limpet or key-hole limpet, egg white albumin, and bovine serum albumin. A monoclonal antibody highly specific to an agrochem. carbamate is produced by said antigen, preferably from culture supernatant of hybridomas obtained by cell-fusion of mouse spleen cell and myeloma cell. An enzyme immunoassay uses said monoclonal antibody, which involves (1) immobilization of said antigen on a carrier, (2) blocking, (3) addition of an agrochem. carbamate-containing sample and monoclonal and/or polyclonal antibody, competitively binding the antibody to said antigen and the latter carbamate to form antibody-antigen complex and an antibody-carbamate complex, (4) removing the antibody-carbamate complex, and (5) measurement of the amount of antigen-antibody complex and determination of the amount of the carbamate from a working curve. Above assay is useful for simple and rapid determination of agrochem. carbamate residues in environmental water and soil and food. Thus, MeSCMe2CH:NOH (aldicarb oxime) was condensed with tert-Bu 4-(phenoxycarbonylamino)butyrate using DBU in CH2Cl2 to give 50% MeSCMe2CH:NO2CNH(CH2)3CO2CMe3, which was treated with CF3CO2H in benzene at room temperature overnight to give 50% MeSCMe2CH:NO2CNH(CH2)3CO2H (aldicarb hapten). The latter compound and MeSCMe:NO2CNH(CH2)3CO2H (methomyl hapten) (preparation given) were condensed with bovine serum albumin by the mixed anhydride method using iso-Bu chloroformate in dioxane containing N-methylmorpholine to give a bovine serum albumin conjugate with haptens of aldicarb and methomyl as an antigen. This antigen was inoculated to a mouse every two weeks and the spleen was removed. Spleen cells were harvested, mixed with myeloma cells, and centrifuged, and the collected cells were suspended in DMEM culture medium, treated with polyethylene glycol solution for cell fusion, treated with DMEM culture medium and bovine fetal serum, and centrifuged. The collected cells were incubated in HAT culture medium in wells under 5% CO2 atmosphere for 10-14 days and the antibody activity was examined for each well by ELISA assay. The well cells

producing the desired antibody were cloned by limited dilution in HAT medium to give 3 hybridoma cells producing anti-aldicarb antibody and 2 hybridoma cell producing anti-methomyl antibody. Each cloned hybridoma cell was cultured in DMEM medium containing 10% bovine fetal serum, and centrifuged to give a monoclonal antibody solution Methomyl in soil was determined at 50-500 ng/1 g soil using purified monoclonal anti-methomyl antibody.

IT **17702-57-7**, 4-Dimethylaminomethyleneamino-m-tolyl methylcarbamate
RL: ANT (Analyte); ANST (Analytical study)
(preparation of N-(carboxyalkyl)carbamate derivs. as carbamate haptens and their protein conjugates as antigens for production of carbamate-specific antibodies in enzyme immunoassay of agrochem. carbamates)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



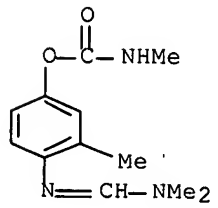
L21 ANSWER 22 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:411646 CAPLUS Full-text
DOCUMENT NUMBER: 122:221934
TITLE: Hazardous waste management system; carbamate production identification and listing of hazardous waste; and CERCLA hazardous substance designation and reportable quantities
CORPORATE SOURCE: United States Environmental Protection Agency, Washington, DC, 20460, USA
SOURCE: Federal Register (1995), 60(27), 7824-59, 9 Feb 1995
CODEN: FEREAC; ISSN: 0097-6326
PUBLISHER: Superintendent of Documents
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 14 Mar 1995

AB The US EPA is listing as hazardous 6 wastes generated during the production of carbamate chems. for use as pesticides and in the production of synthetic rubber. The EPA is providing an exemption for certain wastes if the generator demonstrates that the hazardous air pollutants are not being discharged or volatilized during waste treatment and is also exempting biol. treatment sludges generated from the treatment of certain wastes provided that the sludges do not display any of the characteristics of a hazardous waste (i.e., ignitability, corrosivity, reactivity, or toxicity). The EPA is also adding 58 specific chems. to the list of com. chemical products that are hazardous wastes when discarded and to the list of hazardous constituents upon which listing detns. are based. Action on 12 specific chems. and 4 generic categories is being deferred. The effect of listing these wastes will be to subject them to regulation as hazardous waste under subtitle C of the Resource Conservation and Recovery Act (RCRA) and the notification requirements of section 103 under the Comprehensive Environmental Response, Compensation, and

Liability Act (CERCLA). The EPA is not taking action at this time to adjust the 1-lb statutory reportable quantities for these substances.

IT **17702-57-7**
RL: POL (Pollutant); OCCU (Occurrence)
(hazardous waste designation of discarded com. chemical products by EPA of USA)

RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)

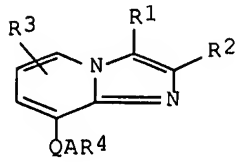


L21 ANSWER 23 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:330513 CAPLUS Full-text
DOCUMENT NUMBER: 122:105879
TITLE: Preparation of imidazo[1,2-a]pyridines as bradykinin antagonists.
INVENTOR(S): Oku, Teruo; Kayakiri, Hiroshi; Satoh, Shigeki; Abe, Yoshito; Yuki, Sawada; Tanaka, Hirokazu
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 117 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 596406	A1	19940511	EP 1993-117474	19931028
EP 596406	B1	19981216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AU 9350242	A	19940512	AU 1993-50242	19931026
AU 686115	B2	19980205		
ZA 9308011	A	19940609	ZA 1993-8011	19931027
IL 107426	A	19970713	IL 1993-107426	19931027
AT 174596	T	19990115	AT 1993-117474	19931028
ES 2125294	T3	19990301	ES 1993-117474	19931028
CA 2102137	A1	19940503	CA 1993-2102137	19931101
CN 1089947	A	19940727	CN 1993-119684	19931101
HU 66302	A2	19941128	HU 1993-3119	19931102
JP 07300478	A	19951114	JP 1993-274643	19931102
JP 2763036	B2	19980611		
US 5574042	A	19961112	US 1995-441786	19950516
US 5750699	A	19980512	US 1996-662198	19960612

PRIORITY APPLN. INFO.:
GB 1992-22947 A 19921102
GB 1993-4249 A 19930303
US 1993-142967 B2 19931029

US 1994-235632 B1 19940429
US 1995-441786 A3 19950516
OTHER SOURCE(S): MARPAT 122:105879
ED Entered STN: 04 Feb 1995
GI

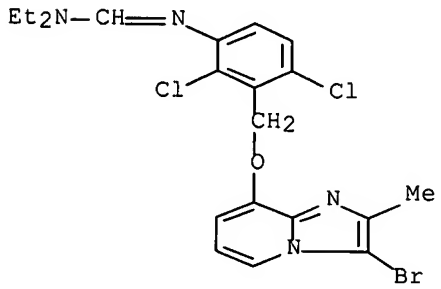


I

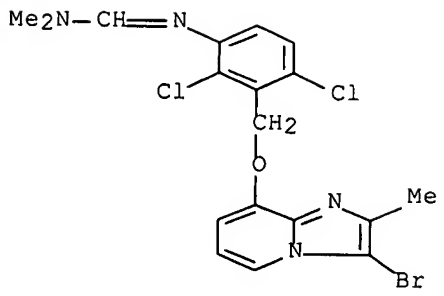
AB Title compds. [I; R1 = halo; R2, R3 = H, alkyl, haloalkyl, acyl, R4 = aryl having suitable substituent(s), heterocyclyl optionally having suitable substituent(s); Q = O or NR11; R11 = H, acyl; and A = alkylene], were prepared Thus, 8-(2,6-dichloro-3-nitrobenzyloxy)-2-methylimidazo[1,2- a]pyridine was stirred with N-bromosuccinimide in EtOH/dioxane to give 3-bromo-8-(2,6-dichloro-3-nitrobenzyloxy)-2-methylimidazo[1,2-a]pyridine. I at 10-5 M gave 95-100% inhibition of 3H-bradykinin binding to guinea pig ileum prepns.

IT **160642-03-5P 160642-04-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as bradykinin antagonist)

RN 160642-03-5 CAPLUS
CN Methanimidamide, N'-[3-[[(3-bromo-2-methylimidazo[1,2-a]pyridin-8-yl)oxy]methyl]-2,4-dichlorophenyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



RN 160642-04-6 CAPLUS
CN Methanimidamide, N'-[3-[[(3-bromo-2-methylimidazo[1,2-a]pyridin-8-yl)oxy]methyl]-2,4-dichlorophenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

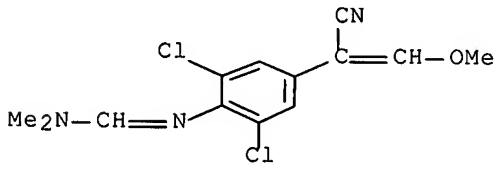


L21 ANSWER 24 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1992:214524 CAPLUS Full-text
DOCUMENT NUMBER: 116:214524
TITLE: Preparation of 2,4-diamino-5-phenylpyrimidines and analogs as neuroprotectants
INVENTOR(S): Leach, Michael John; Nobbs, Malcolm Stuart; Iyer, Ramachandran; Yeates, Clive Leonard; Skone, Philip Alan
PATENT ASSIGNEE(S): Wellcome Foundation Ltd., UK
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

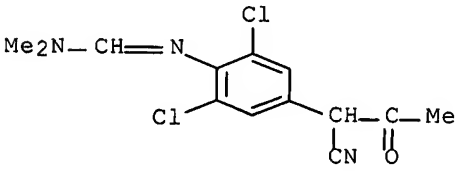
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 459819	A2	19911204	EP 1991-304935	19910531
EP 459819	A3	19920311		
EP 459819	B1	19960814		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 9104165	A	19930301	ZA 1991-4165	19910530
CA 2043640	A1	19911202	CA 1991-2043640	19910531
FI 9102623	A	19911202	FI 1991-2623	19910531
NO 9102100	A	19911202	NO 1991-2100	19910531
NO 180375	B	19961230		
NO 180375	C	19970409		
AU 9178097	A	19911205	AU 1991-78097	19910531
AU 652753	B2	19940908		
HU 58707	A2	19920330	HU 1991-1826	19910531
JP 06340634	A	19941213	JP 1991-235334	19910531
PL 166656	B1	19950630	PL 1991-290496	19910531
EP 679645	A1	19951102	EP 1995-111314	19910531
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CZ 281070	B6	19960612	CZ 1991-1643	19910531
AT 141263	T	19960815	AT 1991-304935	19910531
IL 98330	A	19961031	IL 1991-98330	19910531
ES 2093078	T3	19961216	ES 1991-304935	19910531
PL 170373	B1	19961231	PL 1991-305331	19910531
SK 278444	B6	19970507	SK 1991-1643	19910531
RU 2091374	C1	19970927	RU 1991-4895583	19910531
IL 113599	A	19970930	IL 1995-113599	19910531
AU 9467455	A	19940915	AU 1994-67455	19940713
AU 680252	B2	19970724		

NO 9504109	A	19911202	NO 1995-4109		19951016
FI 9601410	A	19960328	FI 1996-1410		19960328
PRIORITY APPLN. INFO.:			GB 1990-12316	A	19900601
			EP 1991-304935	A3	19910531
			FI 1991-2623	A	19910531
			IL 1991-98330	A0	19910531
			NO 1991-2100	A	19910531

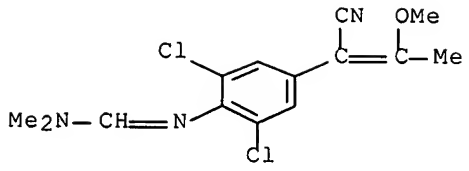
OTHER SOURCE(S): MARPAT 116:214524
ED Entered STN: 31 May 1992
GI For diagram(s), see printed CA Issue.
AB Title compds. [I; R1, R2 = NR13R14; R3 = H, (halo)alkyl, alkoxymethyl; R4 = H, halo, NO2; R5, R7, R8 = H, halo; R6 = H, halo, NO2, (di)(alkyl)amino; R13, R14 = H, alkyl; NR13R14 = heterocyclyl] were prepared Thus, 3,5-Cl2C6H3CH2OH was converted in 3 steps to 3,5-Cl2C6H3CH(CN)CHO which was treated with CH2N2 and the resulting enol ether cyclocondensed with (N-methylpiperazino)formamidine to give title compound II which had IC50 of 0.27 μM against veratrine-induced release of glutamate from rat brain slices.
IT **139256-60-3P 139256-62-5P 139256-63-6P**
139256-65-8P 139256-66-9P 141231-84-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of neuroprotectants)
RN 139256-60-3 CAPLUS
CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-2-methoxyethenyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



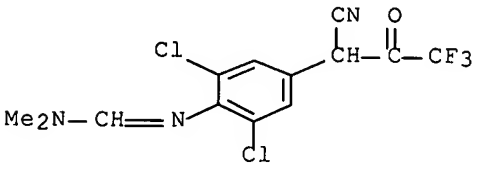
RN 139256-62-5 CAPLUS
CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-2-oxopropyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



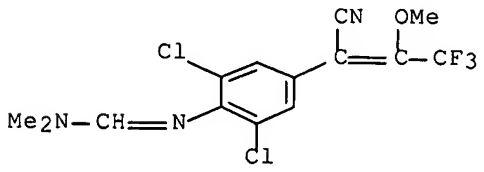
RN 139256-63-6 CAPLUS
CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-2-methoxy-1-propenyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



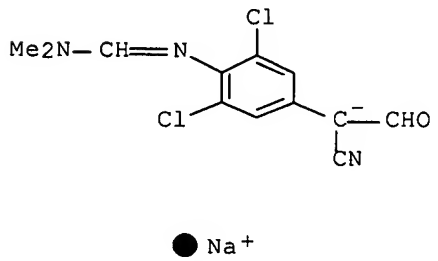
RN 139256-65-8 CAPLUS
CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-3,3,3-trifluoro-2-oxopropyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



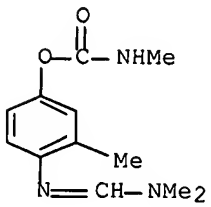
RN 139256-66-9 CAPLUS
CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-3,3,3-trifluoro-2-methoxy-1-propenyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 141231-84-7 CAPLUS
CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-2-oxoethyl)phenyl]-N,N-dimethyl-, ion(1-), sodium (9CI) (CA INDEX NAME)



L21 ANSWER 25 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:2242 CAPLUS Full-text
DOCUMENT NUMBER: 114:2242
TITLE: Cholinesterase inhibition in the bulb mite Rhizoglyphus echinopus (Acari: Acaridae) in relation to the acaricidal action of organophosphates and carbamates
AUTHOR(S): Errampalli, D. D.; Knowles, C. O.
CORPORATE SOURCE: Dep. Entomol., Univ. Missouri, Columbia, MO, 65211, USA
SOURCE: Experimental and Applied Acarology (1990), 9(1-2), 19-30
CODEN: EAACEM; ISSN: 0168-8162
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 Jan 1991
AB The 5000-g supernatant fraction of whole-bulb-mite homogenates possessed a cholinesterase (ChE) that hydrolyzed acylcholine esters in the order acetyl > propionyl > butyryl. Acetyl-β-methylcholine, but not benzoylcholine, also was hydrolyzed as were acetylthiocholine and acetyl-β-methylthiocholine. No inhibition by excess substrate was observed to cholinesterase concns. as high as 30 mM. Cholinesterase activity was markedly insensitive to eserine and to certain other carbamates and organophosphates. Only organophosphates of the dimethylphosphate type generally were active ChE inhibitors. Thus, the inability of carbamates such as eserine, and organophosphates such as those with alkyl groups larger than di-Me, to inhibit the bulb-mite ChE was probably a consequence of the nature of the esteratic site. Apparently, ChE inhibition was likely involved in the toxicity to bulb mites of some of the toxic carbamates and organophosphates, but it might not be the only mechanism involved, at least with several of the compds.
IT **17702-57-7**, Formparanate
RL: BIOL (Biological study)
(cholinesterase inhibition by, in Rhizoglyphus echinopus, acaricidal activity in relation to)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 26 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:630924 CAPLUS Full-text
DOCUMENT NUMBER: 113:230924
TITLE: Reactions of amines or amides with phthaloyl chloride. Synthesis of fluorine-containing N,N-dimethyl-N'-substituted amidines and related compounds
AUTHOR(S): Chen, Meijin; Chi, Chingsung; Chen, Qingyun

CORPORATE SOURCE: Shanghai Inst. Org. Chem., Acad. Sin., Shanghai, 200032, Peop. Rep. China
SOURCE: Journal of Fluorine Chemistry (1990), 49(1), 99-106
CODEN: JFLCAR; ISSN: 0022-1139
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:230924
ED Entered STN: 22 Dec 1990
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

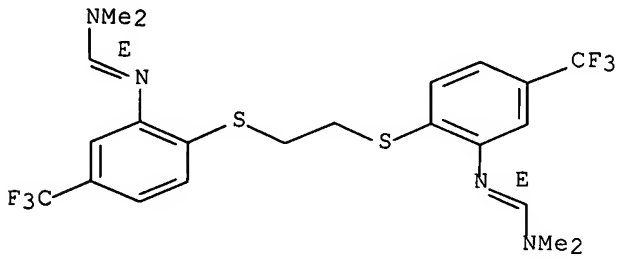
AB Treating 2,2'-ethylenebis[5-(trifluoromethylaniline] (I) with o-C6H4(COCl)2 in DMF at room temperature gave 58% trans-substituted amidine II whose structure was confirmed by x-ray anal. Treating I with o-C6H4(COCl)2 in C6H6-Et3N gave 37% benzofuran III. Addnl. obtained from appropriate diamines were N,N-dimethyl-N'-[2,6-dinitro-4- (trifluromethyl)]formamidine, phthalazine IV, and N-(2,6- difluorobenzoyl)phthalimide.

IT **130535-60-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 130535-60-3 CAPLUS

CN Methanimidamide, N',N'''-[1,2-ethanediylbis[thio[5-(trifluoromethyl)-2,1-phenylene]]]bis[N,N-dimethyl-, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



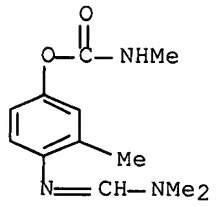
L21 ANSWER 27 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:52928 CAPLUS Full-text
DOCUMENT NUMBER: 110:52928
TITLE: Comparative toxicities of selected pesticides to bulb mite (Acari: Acaridae) and twospotted spider mite (Acari: Tetranychidae)
AUTHOR(S): Knowles, Charles O.; Errampalli, Daniel D.; El-Sayed, Gala N.
CORPORATE SOURCE: Dep. Entomol., Univ. Missouri, Columbia, MO, 65211, USA
SOURCE: Journal of Economic Entomology (1988), 81(6), 1586-91
CODEN: JEENAI; ISSN: 0022-0493
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 17 Feb 1989

AB The toxicities of 64 insecticides and acaricides belonging to several different chemical classes to the bulb mite, Rhizoglyphus echinopus, were examined with a contact-dip method. Results were compared with those obtained with many of the same compds. and the twospotted spider mite, Tetranychus urticae, with the slide-dip method. Bulb mites generally were much more tolerant to the pesticides than were twospotted spider mites. Only 15 of 20 organophosphates and 6 of 8 carbamates had LC50's <1000 ppm for bulb mites after 72 h. Thus, the remaining organophosphates and carbamates and the 9 pyrethroids, 6 organochlorines, 4 formamidines, 14 specific acaricides, diflubenzuron, nicotine, and abamectin were inactive. Of the 49 compds. tested against twospotted spider mites, LC50's <1000 ppm after 48 h were obtained for all compds. except 6 organophosphates, 2 carbamates, endosulfan, and 2 specific acaricides. This marked difference in the pesticide susceptibility profile between these two herbivorous mite species suggests that major differences between these organisms may exist at the biochem. level.

IT **17702-57-7**, Formparanate
RL: PRP (Properties)
(toxicity of, to bulb mite and twospotted spider mite, comparative)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 28 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:492415 CAPLUS Full-text

DOCUMENT NUMBER: 109:92415

TITLE: Arylformamidines with antinociceptive properties

AUTHOR(S): Gall, M.; McCall, J. M.; TenBrink, R. E.; VonVoigtlander, P. F.; Mohrland, J. S.

CORPORATE SOURCE: CNS Dis. Res. Lab., Upjohn Co., Kalamazoo, MI, 49001, USA

SOURCE: Journal of Medicinal Chemistry (1988), 31(9), 1816-20
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:92415

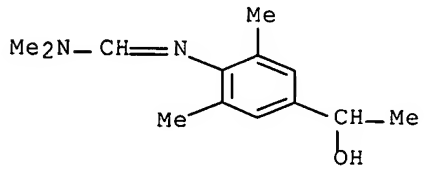
ED Entered STN: 17 Sep 1988

AB A series of formamidines, MeNRCH:NAr [R = H, Ar = 2,4-Me2C6H3, 2,5-Cl2C6H3, 3,4-Cl2C6H3, 2,6-Cl2C6H3, 2-ClC6H4, 2,3-Cl2C6H3, 2,4-Cl2C6H3, 2,4,6-Me3C6H2; R = Me, Ar = 2,6-Me2C6H3, 2,5-Cl2C6H3, 3,4-Cl2C6H3, 2,6-Cl2C6H3, 2,4,6-Me3C6H2, 2,4-Me2C6H3, 2-(3-methylpyridyl)amine, etc.], structurally related to clonidine were synthesized starting from the reaction of anilines with HNCONHMe or Me2NCH(OMe)2 and investigated as potential nonopiate analgesics. Several of these compds. showed potent analgesic activity (ED50 on HCl writhing <1.0 mg/kg) with low potential for hypotensive effects. A qual. description of the structure-activity relationship of this series reveals that

the 2,4- and 2,6-dimethylphenyl compds. are more potent analgesics than are the corresponding dichlorophenyl compds.

IT **114886-20-3P 114886-22-5P 114886-24-7P 114886-25-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and analgesic activity of)

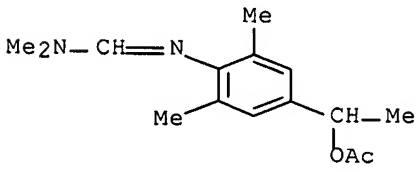
RN 114886-20-3 CAPLUS
CN Methanimidamide, N'-[4-(1-hydroxyethyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 114886-22-5 CAPLUS
CN Methanimidamide, N-[4-[1-(acetyloxy)ethyl]-2,6-dimethylphenyl]-N,N-dimethyl-, mono(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

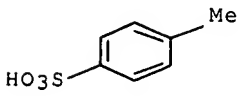
CM 1

CRN 114886-21-4
CMF C15 H22 N2 O2



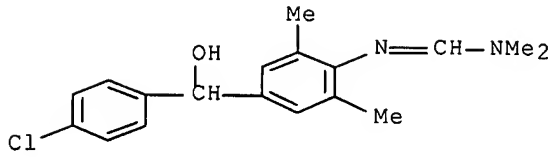
CM 2

CRN 104-15-4
CMF C7 H8 O3 S

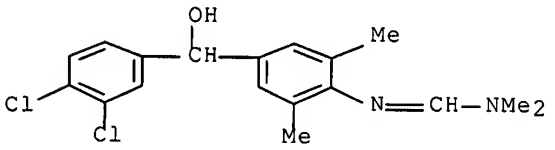


RN 114886-24-7 CAPLUS
CN Methanimidamide, N'-[4-[(4-chlorophenyl)hydroxymethyl]-2,6-dimethylphenyl]-

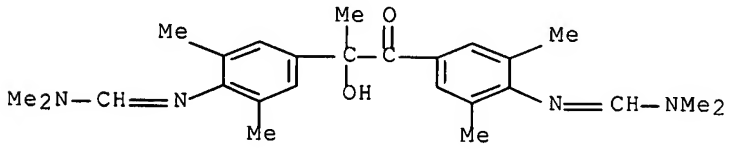
N,N-dimethyl- (9CI) (CA INDEX NAME)



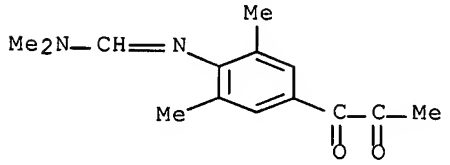
RN 114886-25-8 CAPLUS
CN Methanimidamide, N'-[4-[(3,4-dichlorophenyl)hydroxymethyl]-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



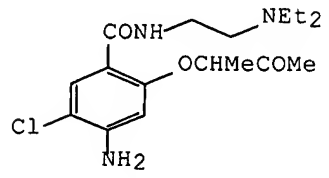
IT **114886-26-9P 114886-27-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 114886-26-9 CAPLUS
CN Methanimidamide, N',N'''-[(1-hydroxy-1-methyl-2-oxo-1,2-ethanediyl)bis(2,6-dimethyl-4,1-phenylene)]bis[N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 114886-27-0 CAPLUS
CN Methanimidamide, N'-[4-(1,2-dioxopropyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



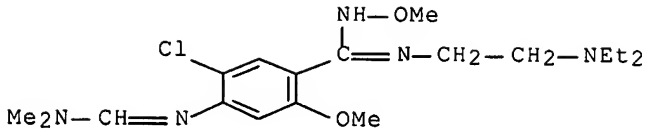
L21 ANSWER 29 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:454441 CAPLUS Full-text
DOCUMENT NUMBER: 109:54441
TITLE: Substituted benzamides. 1. Potential nondopaminergic antagonists of chemotherapy-induced nausea and emesis
AUTHOR(S): Monkovic, Ivo; Willner, David; Adam, Michael A.; Brown, Myron; Crenshaw, R. R.; Fuller, Carl E.; Juby, Peter F.; Luke, George M.; Matiskella, John A.; Montzka, Thomas A.
CORPORATE SOURCE: Pharm. Res. Dev. Div., Bristol-Myers Co., Syracuse, NY, 13221, USA
SOURCE: Journal of Medicinal Chemistry (1988), 31(8), 1548-58
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 109:54441
ED Entered STN: 19 Aug 1988
GI



I

AB A series of new substituted benzamides has been synthesized and evaluated for dopamine antagonist activity and for antagonism of cisplatin-induced emesis in the dog and in the ferret. Modification of the 2-methoxy substituent of metoclopramide was detrimental to dopaminergic D2 antagonism but not necessarily to antagonism of cisplatin-induced emesis. A number of analogs having a β-keto, β-hydroxy, β-methoxy, β-imino, or β-unsatd. alkyloxy substituent instead of methoxy have shown equal or superior protection form emesis to that of metoclopramide. At the same time these compds. were found to be free of dopaminergic D2 antagonism in both in vitro ([3H]spiperone binding) and in vivo tests (rat catalepsy, antagonism of apomorphine-induced stereotypy in the rat, and apomorphine-induced emesis in the dog). Compound I showed potential advantage over clin. available antiemetic agents for chemotherapy.

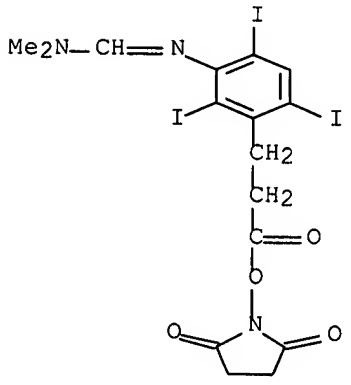
IT **114614-60-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)
RN 114614-60-7 CAPLUS
CN Benzenecarboximidamide, 5-chloro-N-[2-(diethylamino)ethyl]-4-[[(dimethylamino)methylene]amino]-N',2-dimethoxy- (9CI) (CA INDEX NAME)



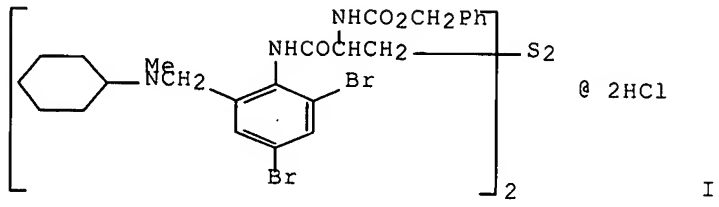
L21 ANSWER 30 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:614496 CAPLUS Full-text
DOCUMENT NUMBER: 107:214496
TITLE: Iodinated antibodies in contrast media for computerized tomography
INVENTOR(S): Takahashi, Yutaka; Kato, Yoshinori; Usui, Masayoshi
PATENT ASSIGNEE(S): Teijin Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62042936	A	19870224	JP 1985-181665	19850821
PRIORITY APPLN. INFO.:			JP 1985-181665	19850821

ED Entered STN: 12 Dec 1987
AB Contrast media for computerized tomog. contain iodinated (i.e. iodine compound-labeled) antibodies. Horse anti-human α-fetoprotein antibody was treated with N-succinimidyl β-(3-dimethylaminomethyleneamino- 2,4,6-triiodophenyl)propionate to form a contrast medium.
IT **111200-24-9DP**, reaction products with antibodies to α-fetoproteins
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as contrast medium for computerized tomog.)
RN 111200-24-9 CAPLUS
CN Methanimidamide, N'-[3-[3-[(2,5-dioxo-1-pyrrolidinyl)oxy]-3-oxopropyl]-2,4,6-triiodophenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

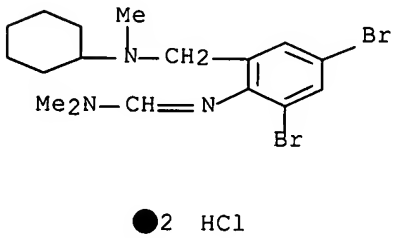


L21 ANSWER 31 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:213351 CAPLUS Full-text
DOCUMENT NUMBER: 104:213351
TITLE: Analytical profile of REC 15-1884-2, a new compound with expectorant activity
AUTHOR(S): Guenzi, A.; Cappelletti, R.; Esposito, R.; Polidori, M.; Leonardi, A.
CORPORATE SOURCE: Chem. Res. Dep., Recordati S.p.A., Milan, Italy
SOURCE: Bollettino Chimico Farmaceutico (1985), 124(11), 451-68
CODEN: BCFAAI; ISSN: 0006-6648
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 14 Jun 1986
GI



I

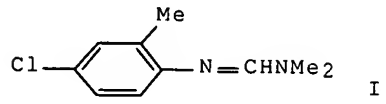
AB The IR, UV, NMR and 13C-NMR and mass spectral properties REC 15-1884-2 (I) [86042-51-5] having expectorant activity are described. The TLC and HPLC gas chromatog. of I are discussed. The synthesis of I, and impurities obtained during the preparation of I and related compds. are described.
IT **102203-29-2P**
RL: PREP (Preparation)
(preparation of)
RN 102203-29-2 CAPLUS
CN Methanimidamide, N'-[2,4-dibromo-6-[(cyclohexylmethylamino)methyl]phenyl]-N,N-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L21 ANSWER 32 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1982:594258 CAPLUS Full-text
DOCUMENT NUMBER: 97:194258
TITLE: Interaction of formamidines with the platelet

5-hydroxytryptamine uptake system
AUTHOR(S): Johnson, Terry L.; Knowles, Charles O.
CORPORATE SOURCE: Dep. Entomol., Univ. Missouri, Columbia, MO, 65211, USA
SOURCE: General Pharmacology (1982), 13(4), 299-307
CODEN: GEPHDP; ISSN: 0306-3623
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI

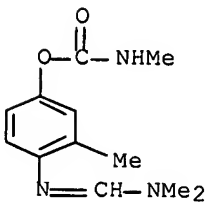


I

AB The activity of chlordimeform (I) [6164-98-3], its 2 formamide metabolites, demethylchlordimeform [21787-80-4] and didemethylchlordimeform [57151-04-9], and 116 other formamidines and related compds. as inhibitors of rat platelet 5-hydroxytryptamine (5-HT) [50-67-9] uptake was studied. Though several formamidines were more active than I (pI50 3.9), none was as potent as imipramine [50-49-7]. Dimethylchlorodimeform (pI50 4.4) was the most potent formamidine examined Inhibition of 5-HT uptake by I was mixed. Moreover, I inhibition of 5-HT uptake by reserpinized platelets was not significantly different from uptake by nonreserpinized platelets. I and its 2 formamidine metabolites caused release of platelet 5-HT, and their potency as releasers paralleled their activity as uptake inhibitors. Electron microscopy indicated that I treatment changed platelet shape and size, but apparently did not alter phys. integrity of the membrane. Thus, platelet 5-HT storage vesicles were the most probable site of formamidine action.

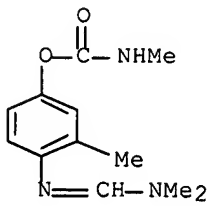
IT **17702-57-7**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(hydroxytryptamine uptake by blood platelet response to)

RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



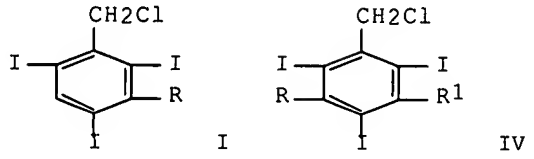
L21 ANSWER 33 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1981:581946 CAPLUS Full-text
DOCUMENT NUMBER: 95:181946
TITLE: Inhibition of rat brain monoamine oxidase by

insecticides, acaricides and related compounds
AUTHOR(S): Kadir, Habsah A.; Knowles, Charles O.
CORPORATE SOURCE: Dep. Entomol., Univ. Missouri, Columbia, MO, 65211, USA
SOURCE: General Pharmacology (1981), 12(4), 239-47
CODEN: GEPHDP; ISSN: 0306-3623
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB Sixty-one insecticides, acaricides, and related compds. were examined for their potency as in vitro inhibitors of the deamination of biogenic amine substrates by rat brain monoamine oxidase (MAO) [9001-66-5]. Substrates examined included serotonin (5-HT) [50-67-9], dopamine (DA) [51-61-6], octopamine (OCP) [104-14-3], tryptamine (TYP) [61-54-1], and β-phenylethylamine (PEA) [64-04-0]. Twenty-eight compds., including 6 organophosphates, 4 carbamates, 8 formamidines, and 2 sulfonates, were considered active, since they gave 50% inhibition of the deamination of ≥1 substrate when assayed at 1 + 10-4M. Generally, the active compds. were more potent MAO inhibitors when assayed with 5-HT or DA than with OCP, TYP, or PEA. Five of the 6 active organophosphates possessed a substituted coumarinyl moiety. Potosan [299-45-6] was the most potent organophosphate MAO inhibitor giving pI50 values of 5.95 and 5.75 for DA and 5-HT, resp.; inhibition of 5-HT deamination by Potosan was mixed. Carbaryl [63-25-2] was the most potent carbamate with pI50 values of 5.00 for DA and 4.80 for 5-HT. Inhibition by carbaryl of 5-HT, DA, and OCP deamination was competitive, while that of TYP was mixed. The formamidine chlordimeform [6164-98-3] gave pI50 values of 4.50 for DA and 4.25 for OCP; its N-demethyl derivative, demethylchlordimeform [21787-80-4], was somewhat more potent giving pI50 values of 4.80 for DA and 4.60 for OCP. Inhibition of DA and OCP deamination by chlordimeform was competitive. Ovex [80-33-1] was the most potent inhibitor of 5-HT and DA deamination with pI50 values of 6.15 and 5.90, resp.; its pI50 value with PEA was only 2.50. Thus, ovex was >4000 times more potent against rat brain MAO when assayed with 5-HT than with PEA. Inhibition by ovex was mixed with all substrates examined
IT **17702-57-7**
RL: BIOL (Biological study)
(monoamine oxidase of brain inhibition by)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



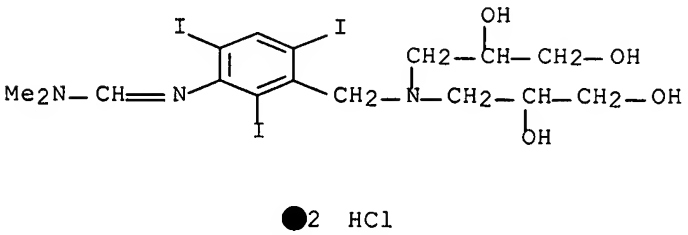
L21 ANSWER 34 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1977:139523 CAPLUS Full-text
DOCUMENT NUMBER: 86:139523
TITLE: Synthesis of iodinated derivatives of 3-aminobenzylamine and 3,5-diaminobenzylamine for

x-ray diagnostics
AUTHOR(S): Hebky, J.; Polacek, J.; Tikal, I.; Lupinek, V.; Sova, M.
CORPORATE SOURCE: Res. Inst. Pharm. Biochem., Prague, Czech.
SOURCE: Collection of Czechoslovak Chemical Communications (1976), 41(10), 3094-105
CODEN: CCCCAK; ISSN: 0010-0765
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI



I IV

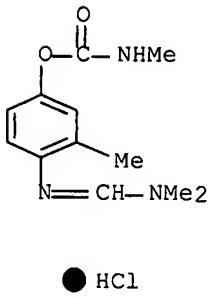
AB As potential x-ray contrast agents, 41 triiodo and tetraiodo derivs. were prepared by condensation of I [R = NH2, AcNH, PrCONH, iodo, Me2NCH:N, AcNMe, MeO, MeNH, AcOCH2CONH, HOCH2CONH, AcOCH2CONMe, HOCH2CONMe, o-C6H4(CO)2NCH2CONMe, HO(CH2)2O, HOCH2CH(OH)CH2O] with NH(CH2CH2OH)2 (II), H2NCH2CH(OH)CH2OH, NH[CH2CH(OH)CH2OH] (III), H2NC(CH2OH)2Me, MeNHCH2CH2OH, EtNHCH2CH2OH or N-methylglucamine, and by condensation of IV (R = NH2, AcNH, Ac2N, iodo, MeO; R1 = AcNH), Ac2N) with II or III.
IT **62180-05-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 62180-05-6 CAPLUS
CN Methanimidamide, N'-[3-[[bis(2,3-dihydroxypropyl)amino]methyl]-2,4,6-triiodophenyl]-N,N-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

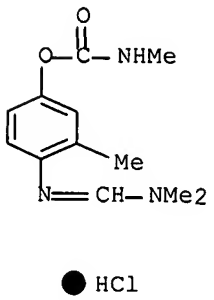
L21 ANSWER 35 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:473221 CAPLUS Full-text
DOCUMENT NUMBER: 83:73221
TITLE: Fungicide movement in soils
AUTHOR(S): Helling, Charles S.; Dennison, D. Gayle; Kaufman, Donald D.
CORPORATE SOURCE: Agric. Res. Cent. West, ARS, Beltsville, MD, USA
SOURCE: Phytopathology (1974), 64(8), 1091-100

CODEN: PHYTAJ; ISSN: 0031-949X
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB A method combining a bioassay with soil thin-layer chromatog. (soil TLC) was developed to determine the mobility of fungicides in soils. After leaching soil TLC plates with water, 10 soil fungi (Aspergillus fumigatus, Diploidia zeae, 2 isolates of Fusarium moniliforme, F. roseum, Helminthosporium sativum, Penicillium chrysogenum, P. rugulosum, Rhizoctonia solani, and Trichoderma viride) and an alga (Chlorella sorokiniana) were tested as visualizing agents by spraying plates with a liquid nutrient agar suspension of the organism. Plates were incubated at 100% relative humidity and .apprx.28° until inhibition or stimulation zones appeared, usually at 1-4 days. The mobility of 38 pesticides (33 fungicides, 3 insecticides, 1 acaricide,and 1 herbicide) in Hagerstown silty clay loam was determined The relatively mobile compds. were cycloheximide (I) [66-81-9], cycloheximide oxime [20362-15-6], Dexon [140-56-7], the mercaptide component of Ceresan L, formetanate [22259-30-9], formparanate [**35452-92-7**], and oxycarboxin [5259-88-1]. Immobile compds. included chloranil [118-75-2], chloroneb [2675-77-6], DCNA [99-30-9], dichlone [117-80-6], dodine [2439-10-3], hexachlorophene [70-30-4], Morestan [2439-01-2], PCNB [82-68-8], TCNA [2438-88-2], Terrazole [2593-15-9], and zineb (II) [12122-67-7]. Of the 11 organisms tested, T. viride and C. sorokiniana were sensitive to the greatest number of fungicides. The mobility order nabam [142-59-6] > maneb [12427-38-2] > II was confirmed by bioassay and autoradiog. In 5 different soils, movement of these 3 dithiocarbamate fungicides was inversely related to soil organic matter content.
IT **35452-92-7**
RL: ANT (Analyte); ANST (Analytical study)
(mobility determination of, in soils, by thin-layer chromatog.)
RN 35452-92-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



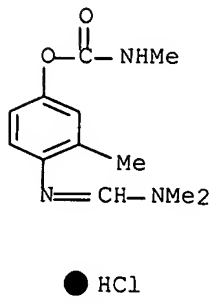
L21 ANSWER 36 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:165857 CAPLUS Full-text
DOCUMENT NUMBER: 82:165857
TITLE: Reference LD50 values for some insecticides against the boll weevil
AUTHOR(S): Hopkins, A. R.; Taft, H. M.; James, W.
CORPORATE SOURCE: Southeast. Cotton Insects Lab., ARS, Florence, SC, USA
SOURCE: Journal of Economic Entomology (1975), 68(2), 189-92
CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB The standard method (topical application) of determining resistance in Anthonomus grandis adopted by the Entomological Society of America was used to establish LD50 values for 6 exptl. insecticides and 16 chemical or chemical combinations. These values can serve as reference stds. that may be used to detect changes in susceptibility. The average LD50's ranged from 0.052 μg/weevil for methyl parathion (I) [298-00-0] to 39.490 for carbaryl [63-25-2]. Also, the LD50's obtained for toxaphene-DDT mixture [37272-06-3], I, and carbaryl by the standard method were compared with the LC50's obtained with an immersion metod and a dry film method. The dry film method appered more promising for a field test kit.
IT **35452-92-7**
RL: PRP (Properties)
(toxicity of, to boll weevil)
RN 35452-92-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



L21 ANSWER 37 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:471390 CAPLUS Full-text
DOCUMENT NUMBER: 77:71390
TITLE: Mode of action studies with formetanate and formparanate acaricides
AUTHOR(S): Knowles, Charles O.; Ahmad, Sami
CORPORATE SOURCE: Dep. Entomol., Univ. Missouri, Columbia, MO, USA
SOURCE: Pesticide Biochemistry and Physiology (1971), 1(3-4), 445-52
CODEN: PCBPBS; ISSN: 0048-3575
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB The acaricides formetanate (I) [22259-30-9] and formparanate [**35452-92-7**] inhibited in vitro acetylcholine deacetylation by acetylcholinesterase [9000-81-1] from rats, houseflies, and two-spotted spider mites, and in vivo acetylcholinesterase activity was depressed in the above organisms poisoned with I. An excellent correlation was observed between toxicity and in vivo acetylcholinesterase inhibition in I-poisoned organisms. Thus, acetylcholinesterase inhibition by the acaricide seemed to be the fundamental biochem. lesion responsible for death in the rat, housefly, and mite.
IT **35452-92-7**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(acaricides, action mechanism of)
RN 35452-92-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



L21 ANSWER 38 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:415581 CAPLUS Full-text
DOCUMENT NUMBER: 77:15581
TITLE: Corn earworm control on sweet corn ears in central and south Florida, 1969-70
AUTHOR(S): Janes, M. J.; Greene, G. L.
CORPORATE SOURCE: Agric. Res. Educ. Cent., Univ. Florida, Belle Glade, FL, USA
SOURCE: Journal of Economic Entomology (1972), 65(2), 521-2
CODEN: JEENAI; ISSN: 0022-0493
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB The daily application of CIBA C-9491 [O-(2,5-dichloro-4-iodophenyl) O,O-dimethyl phosphorothioate](I) [18181-70-9], diazinon [333-41-5], Fundal [6164-98-3], Monitor [10265-92-6], Phosvel [21609-90-5], or UC-34096 [4-[[(dimethylamino)methylene]amino]-m-tolyl methylcarbamate-HCl] [**35452-92-7**] at 1 lb/acre, or dursban [2921-88-2], gardona [961-11-5], or methomyl [16752-77-5], at 0.5 lb/acre, gave higher than 95% control of corn earworm (Heliothis zea) on sweet corn. Treatment with Bacillus thuringiensis was ineffective.

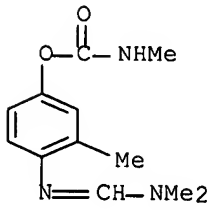
L21 ANSWER 39 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:42750 CAPLUS Full-text
DOCUMENT NUMBER: 76:42750
TITLE: Field comparisons of insecticidal sprays for control of four tomato insects in South Texas
AUTHOR(S): Harding, James A.
CORPORATE SOURCE: Agric. Res. Ext. Cent., Texas A and M Univ., Weslaco, TX, USA
SOURCE: Journal of Economic Entomology (1971), 64(5), 1302-4
CODEN: JEENAI; ISSN: 0022-0493
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984

AB In field tests, Monitor (O,S-dimethyl phosphoramidothioate)(I) [10265-92-6], monocrotophos [6923-22-4], Phosvel (O-(4-bromo-2,5- dichlorophenyl) O-methyl phenylphosphonothioate) [21609-90-5], and 15 other insecticidal sprays effectively controlled 1 or more of the tomato insects, pinworm (Keiferia lycopersicella), Heliothis sp., granulate cutworm (Feltia subterranea), granulate cutworm (Feltia subterrancea), and vegetable leafminer (Liriomyza munda). Slight phytotoxicity was observed during the use of Ciba C-9491 (O-(2,5-dichloro-4-iodophenyl) O,O-dimethyl phosphorothioate) [18181-70-9], Galecron (4'-(4-chloro-o-tolyl)-N,N- dimethylformamidine [6164-98-3] and 2 other sprays.

IT **35452-92-7**
RL: BIOL (Biological study)
(insect control by, on tomatoes)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

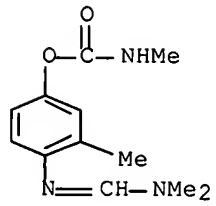


● HCl

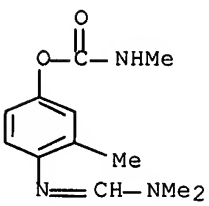
L21 ANSWER 40 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:31040 CAPLUS Full-text
DOCUMENT NUMBER: 76:31040
TITLE: Studies of carbamate pesticide metabolism utilizing plant and mammalian cells in culture
AUTHOR(S): Locke, Raymond K.; Bastone, Vivian B.; Baron, Ronald L.
CORPORATE SOURCE: Div. Pestic. Chem. Toxicol., Food Drug Adm., Washington, DC, USA
SOURCE: Journal of Agricultural and Food Chemistry (1971), 19(6), 1205-9
CODEN: JAFCAU; ISSN: 0021-8561
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984

AB The metabolism of 14C-labeled carbamate insecticides by human embryonic lung and tobacco cells was studied. Lung cells hydrolyzed Banol (I) [671-04-5] to a phenol, which was then conjugated as an O-glucuronide. UC-34096 (II) [17702-57-7] was not metabolized by lung cells, but formed a spontaneous decomposition product. Tobacco cells in suspension culture incorporated 21% of added carbaryl (III) [63-25-2]. A significant amount of the incorporated label was associated with cell debris after homogenization. The remaining label in the supernatant fraction consisted of an unidentified organoextractable metabolite, neutral conjugates of III, α-naphthol [90-15-3], and 5,6-dihydro-5,6- dihydroxycarbaryl [5375-49-5], and acidic conjugates of III and α-naphthol.

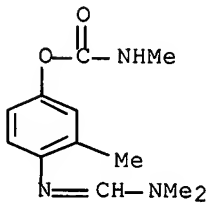
IT **17702-57-7**
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(metabolism of, by embryonic lung cultures)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 41 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:509231 CAPLUS Full-text
DOCUMENT NUMBER: 75:109231
TITLE: Insecticides for budworm control in central and south Florida
AUTHOR(S): Greene, G. L.; Janes, M. J.
CORPORATE SOURCE: North Florida Exp. Stn., Quincy, FL, USA
SOURCE: Proceedings of the Florida State Horticultural Society (1971), Volume Date 1970, 83, 168-70
CODEN: PFSHA7; ISSN: 0097-1219
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB Field expts. testing the control of Spodoptera frugiperda [Laphygma frugiperda] in maize at 2 locations in central and southern Florida during 1969-70 showed 0-82% of stalks free from damage. Gardona, Lannate, Monitor, Niran 6-3, Phosvel, and UC-34096 gave good control of the budworm when applied at adequate rates. Dylox, parathion + toxaphene, and Sevin did not give adequate control. Insecticide granules applied at seeding time helped in th early stages of growth but did not act long enough to replace the need for sprays. Bacillus thuringiensis, including the Brownsville, Texas strain, was also tried, but did not give good control.
IT **17702-57-7**
RL: BIOL (Biological study)
(Laphygma frugiperda control by, in corn)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)

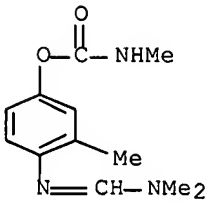


L21 ANSWER 42 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:447787 CAPLUS Full-text
DOCUMENT NUMBER: 75:47787
TITLE: Field tests for control of boll weevils, cabbage loopers, heliothis, and whiteflies on cotton, Weslaco
AUTHOR(S): Harding, James A.
CORPORATE SOURCE: Res. Ext. Cent., Texas A and M Univ., Weslaco, TX, USA
SOURCE: Tex., Agr. Exp. Sta., Progr. Rep. (1970), PR-2841, 5-7
CODEN: TAEPA4
DOCUMENT TYPE: Report
LANGUAGE: English
ED Entered STN: 12 May 1984
AB In 3 expts. with cotton insect control 16 chems. were applied at 4.3 gal of formulation/acre. Although adequate control was not attained in every case the insecticides which were statistically superior were listed for each insect with the lb rate/acre in parentheses. Boll weevil (Anthonomus grandis)-toxaphene + methyl parathion (2 + 1), carbaryl + parathion (2 + 0.5), Bay 93820(1), Union Carbide 34096 (1.5) Pennsalt TD 5032 (0.5) Ciba 9491 (2) and Monitor (1.5). Cabbage looper (Trichoplusia ni)-Ciba 9491 (2), Monitor (1.5), Torak (2), Galecron (1), EPN (1) and Azodrin (1). Heliothis species infestations were very light, but parathion (1.5), Pennsalt TD-5032 (0.5), Galecron (1) and Ciba 9491 (2) offered promise. Whitefly (Trialeurodes abutilonea) control was recorded in only 1 test in which 2 mixts. and 1 chem were compared. Azodrin (1) was outstanding for control followed by carbaryl + methyl parathion (2 + 0.5). Noticeable phytotoxicity was noted in plots treated with Ciba 9491 (2) and Pennsalt TD 5032 (0.5).
IT **17702-57-7**
RL: BIOL (Biological study)
(insect control by, on cotton)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)

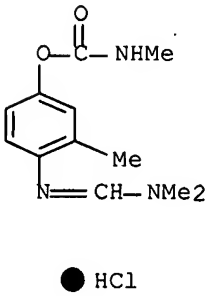


L21 ANSWER 43 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:140074 CAPLUS Full-text
DOCUMENT NUMBER: 74:140074
TITLE: Effect of foliar sprays on the green peach aphid on peppers in southern California
AUTHOR(S): Hale, Ronnie L.; Shorey, Harry H.
CORPORATE SOURCE: Univ. California, Riverside, CA, USA
SOURCE: Journal of Economic Entomology (1971), 64(2), 547-9
CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB The green peach aphid (Myzus persicae) on peppers became more tolerant to the insecticide, endosulfan (I) (0.5 lb/acre), within a period of 3-4 years, however, when I was applied at 1.0 lb./acre in combination with cotton seed oil, it provided good control for 14-21 days. Bayer 65258 (O-ethyl S-ethyl phosphoramidothioate), carbofuran, dimethoate, formetanate, methomyl, oxydemetonmethyl, phorate, and UC-34096 (4-[[(dimethylamino)methylene]amino]-m-tolyl methylcarbamate-HCl) reduced aphid populations to a low level for 14-28 days.
IT **17702-57-7 35452-92-7**
RL: BIOL (Biological study)
(aphid control by, on red peppers)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)

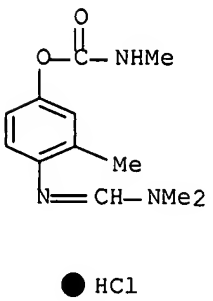


RN 35452-92-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



L21 ANSWER 44 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:86776 CAPLUS Full-text
DOCUMENT NUMBER: 74:86776
TITLE: Field tests of chemicals for control of the poplar petiole gall aphid on cabbage
AUTHOR(S): Harding, James A.
CORPORATE SOURCE: Agric. Res. Ext. Cent., Texas A and M Univ., Weslaco, TX, USA

SOURCE: Journal of Economic Entomology (1971), 64(1), 330-2
CODEN: JEENAI; ISSN: 0022-0493
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB Of the 15 granular insecticides applied to cabbage as a soil side dressing prior to infestation with poplar petiole gall aphid (Pemphigus populitransversus), di-sulfoton, aldicarb, carbofuran, TD-5032, and TD-8550 were the most effective in controlling aphids; of the 9 liquid insecticides applied as side dressings, Monitor, diazinon, Ciba 9491 (O-(2,5-dichloro-4-iodophenyl) O,O-dimethyl phosphorothioate) (I), and UC-34096 (4-[[(dimethylamino)methylene]amino]-m-tolyl-methylcarbamate-HCl) were the most effective. Following spray applications of 26 chems. after aphid infestation, carbo-furan, dimethoate, oxydemetonmethyl, Bayer 93820 (isopro-pylsalicylate O-ester with O-methylphosphoroamidothioate), thompson Hayward 427-1 (N-α-cyanoisopropyl-O,O-diethyl thiophosphorylacetamide), and monocrotophos proved to be the most effective for controlling the aphids.
IT **35452-92-7**
RL: BIOL (Biological study)
(aphid control by, on cabbage)
RN 35452-92-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



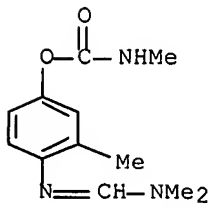
L21 ANSWER 45 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:63456 CAPLUS Full-text
DOCUMENT NUMBER: 74:63456
TITLE: Toxicity of organophosphorus, aryl methylcarbanilate, methylcarbamate, and carboxanilide insecticides against lepidopterans attacking cotton
AUTHOR(S): Wolfenbarger, Dan A.; McGarr, Rex L.; Lowry, William L.
CORPORATE SOURCE: Entomol. Res. Div., Agric. Res. Serv., Brownsville, TX, USA
SOURCE: Journal of Economic Entomology (1970), 63(6), 1943-7
CODEN: JEENAI; ISSN: 0022-0493
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB Of 31 aryl phosphonates, phosphonothioates, or phosphonodithioates applied as conventional sprays, 13 gave at least 50% kill of bollworm, Heliothis zea, larvae at less than 1 lb/acre; Bay 25198 (O,O-dimethyl O-[p-

(methylsulfinyl)phenyl] phosphorothioate) (I), Monsanto CP-40273 (O-p-nitrophenyl O-propyl methylphosphonothioate), and CP-40294 (O-p-nitrophenyl O-phenyl methylphosphonothioate) killed 50% of tobacco budworm, Heliothis virescens, larvae at 0.5 lb/acre; and Stauffer N-2599 (O-p-chlorophenyl O-ethyl ethylphosphono-thioate), N-2790 (O-ethyl S-phenyl ethylphosphonodithioate), and N-3727 (O-methyl S-phenyl methylphosphonodithioate) killed 80% of tobacco budworms at 1 lb/acre. Monsanto CP-43858 (4',4'',5-trichloro-2-hydroxy-3-biphenylylcarboxanilide) formulated in cottonseed oil and applied at a rate of 1.0 lb/acre as an ultra low volume (<0.5 gal/acre) killed 100% of the tobacco budworm larvae. I was the most effective exptl. organophosphate insecticide against both lepidopterans, whereas UC-30045 (II) was the most active carbanilate insecticide and UC 34096 (III) was the most effective methylcarbamate insecticide evaluated.

IT **17702-57-7**
RL: BIOL (Biological study)
(Heliothis virescens and H. zea control by, on cotton)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 46 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:31043 CAPLUS Full-text
DOCUMENT NUMBER: 74:31043
TITLE: Life history and control of the yellow spider mite on pear in southern Oregon
AUTHOR(S): Westigard, P. H.; Berry, D. W.
CORPORATE SOURCE: Southern Oregon Expt. Sta., Oregon State Univ., Medford, OR, USA
SOURCE: Journal of Economic Entomology (1970), 63(5), 1433-7
CODEN: JEENAI; ISSN: 0022-0493
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984

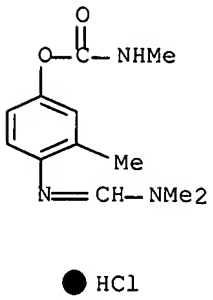
AB Under laboratory conditions overwintering female Eotetranychus carpini borealis laid on an average of 6 eggs compared with 36 for summer females. Both avs. were below those of the two-spotted spider mite, Tetranychus urticae [T. telarius], which were 38 and 100 eggs for overwintering and summer females, resp. In results from field studies, comparisons of the intratree distribution of the yellow spider mite and the two-spotted spider mite revealed a high degree of overlap, but the former was found more evenly distributed over the entire tree. Resistance to phosphate insecticides by E. carpini borealis was reported in 1958, but in 1965 field application of ethion and carbophenothion gave com. control. By 1968 a definite tolerance to ethion was again apparent. In field tests several newer materials were effective including: Chloropropylate, Fundal [N'-(p-chloro-o-tolyl)-N, N-

dimethylformamidine-HCl], formetanate, Galecron, Lovozal, Plictran, and UC 34096. Oil sprays of Volck Supreme or Orchex 79 also were effective.

IT **35452-92-7**
RL: BIOL (Biological study)
(Eotetranychus carpini borealis control by, in pears)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



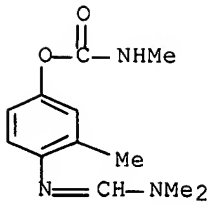
L21 ANSWER 47 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1970:508673 CAPLUS Full-text
DOCUMENT NUMBER: 73:108673
TITLE: Control of the corn stem weevil, Hyperodes humilis, as a pest of field and sweet corn
AUTHOR(S): Genung, William G.; Janes, Melvin J.
CORPORATE SOURCE: Everglades Expt. Sta., Univ. of Florida, Gelle Glade, FL, USA
SOURCE: Florida Entomologist (1970), 53(2), 105-8
CODEN: FETMAC; ISSN: 0015-4040
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984

AB The following materials appeared to be especially effective as foliar and soil treatments against corn stem weevil: carbofuran; R-2596, O-Et S-(p-chlorophenyl) ethylphosphonodithioate; UC-34096, 4-[(dimethylamino)methylen]amino)-m-tolyl methylcarbamate; Fundal, N,N-dimethyl-N'-(2-methyl-4-chlorophenyl)formamidine-HCl; Gardona, 2-chloro-1-(2,4,5-trichlorophenyl)vinyl di-Me phosphate; VCS-506, O-(2,5-dichloro-4-bromophenyl)O-MeO-Ph thiophosphonate; Monitor, O,S-di-Me phosphoramidothioate; Lannate, S-Me N-[(methylcarbamoyl)oxy]thioacetimidat e; Ortho Bux, m-(1-ethylpropyl)phenyl methylcarbamate mixture (1:4) with m-(1-methylbutyl)phenyl methylcarbamate; and Dursban, O,O-di-Et O-(3,5,6-trichloro-2-pyridyl) phosphorothioate.

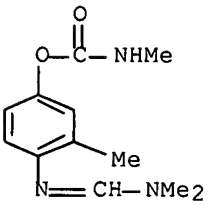
IT **17702-57-7**
RL: BIOL (Biological study)
(Hyperodes humilis control by, in corn)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)

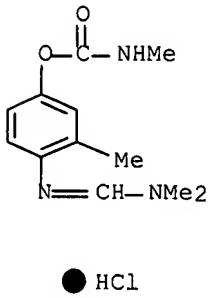


L21 ANSWER 48 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1970:424263 CAPLUS Full-text
DOCUMENT NUMBER: 73:24263
TITLE: Control of budworms on sweet corn in central and south Florida
AUTHOR(S): Greene, Gerald L.; Janes, M. J.
CORPORATE SOURCE: Agr. Exp. Sta., Univ. of Florida, Sanford, FL, USA
SOURCE: Journal of Economic Entomology (1970), 63(2), 579-82
CODEN: JEENAI; ISSN: 0022-0493
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB Control of budworms, principally the fall armyworm, Spodoptera frugiperda, in the whorls of sweet corn in central and south Florida was investigated during 1967-68. In tests with 96-100% damage in check plots the highest percent of injury-free plants occurred in plots treated with monocrotophos, Gardona, GC-6506, Lannate, Monitor, parathion + methyl parathion, parathion + toxaphene, Thuricide + methyl parathion UC-30045, UC-34096, and VCS-506. Other materials tested were less effective.
IT **17702-57-7**
RL: BIOL (Biological study)
(Spodoptera frugiperda control by, on sweet corn)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 49 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1970:120428 CAPLUS Full-text
DOCUMENT NUMBER: 72:120428
TITLE: Codling moth, read-banded leaf roller, apple aphid, Europena red mite, and two-spotted spider mite control on apple trees
AUTHOR(S): Asquith, Dean
CORPORATE SOURCE: Fruit Res. Lab., Pennsylvania State Univ.,

Arendtsville, PA, USA
SOURCE: Journal of Economic Entomology (1970), 63(1), 181-5
CODEN: JEENAI; ISSN: 0022-0493
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB In 1967 and 1968, 30 insecticide treatments were evaluated in orchard expts. for effectiveness on the codling moth, Laspeyresia pomonella; the red-banded leaf roller, Argyrotaenia velutinana; the European red mite, Panonychus ulmi; the twospotted spider mite, Tetranychus urticae; and the apple aphid, Aphis pomi. Azinphosmethyl, applied at the recommended Pennsylvania dosage of 0.5 lb/acre, served as a standard for comparison. The treatments varied in effectiveness on these pests to a degree which indicates that some of the treatments may warrant further testing to determine if they would be useful in some integrated chemical and biol. control programs i n apple orchards.
IT **35452-92-7**
RL: BIOL (Biological study)
(insect control by, on apples)
RN 35452-92-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



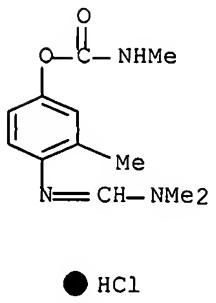
L21 ANSWER 50 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1970:120422 CAPLUS Full-text
DOCUMENT NUMBER: 72:120422
TITLE: Field testing candidate insecticides on beans and alfalfa for control of Mexican bean beetle, potato leafhopper, and plant bugs in New York State
AUTHOR(S): Judge, F. D.; McEwen, Freeman L.; Rinick, H. B., Jr.
CORPORATE SOURCE: Dep. Entomol., New York State Agr. Exp. Sta., Geneva, NY, USA
SOURCE: Journal of Economic Entomology (1970), 63(1), 58-62
CODEN: JEENAI; ISSN: 0022-0493
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB New and standard insecticides, applied as sprays to the foliage of red kidney beans, were evaluated for control of the Mexican bean beetle, Epilachna varivestis, in 1966 and 1967. Of 29 materials tested, only 2 failed to give satisfactory control of the beetle. In 1968 granular formulations of 2 systemic insecticides, phorate (10%) and disulfoton (10%), applied on top of snap beans at planting time gave good control of Mexican bean beetle. Significantly fewer plant bug nymphs (Lygus lineolaris and Poecilocapsus

lineatus) were taken from treated plots of alfalfa than from control plots when 13 insecticides were applied as sprays in 1966. It was concluded that adult plant bugs and potato leafhoppers, Empoasca fabae, which were included in the sampling operation of this experiment, were not reliable indicators of insecticidal efficacy because of their high rate of activity and the ensuing possibility of migration from plot to plot. In 1968, 10-21 insecticides applied as foliar sprays to plots of red kidney beans controlled the potato leafhopper effectively, as judged from nymphal counts taken in treatment and control plots.

IT **35452-92-7**
RL: BIOL (Biological study)
(Epilachna varivestis control by, on beans)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



L21 ANSWER 51 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1969:511853 CAPLUS Full-text
DOCUMENT NUMBER: 71:111853
TITLE: Field evaluation of insecticides for control of the boll weevil, bollworm and tobacco budworm on cotton, Waco area, central Texas, 1968
AUTHOR(S): Cowan, C. B., Jr.; Davis, James Wilmer
CORPORATE SOURCE: Entomol. Res. Div., Agr. Res. Serv., Brownsville, TX, USA
SOURCE: Progress Report - Texas Agricultural Experiment Station (1969), No. 2670-2674, 6-8
CODEN: TAEPA4; ISSN: 0099-5142
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984

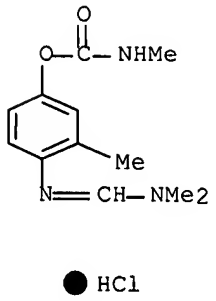
AB Twenty-one insecticides were included in 4 tests designed principally to evaluate these materials for bollworm and tobacco budworm control in the Waco area. The Heliothis infestation, predominantly bollworms in July, changed to tobacco budworms in August. The best boll protection was achieved in the ultra-low-volume experiment with mixts. containing several organophosphorus compds. Insecticides tested were VCS 506, methomyl, EPN, CL 47470, UC 34096, methyl parathion, toxaphene, DDT, GC 6506, CP 47114, Azodrin, and mixts. of these compds. Control of budworm with all treatments was poor. However, there were significantly fewer bollworm-injured squares and bolls in all plots treated. Treatments increased yield over check, and plots treated with Azodrin had a significantly better yield than untreated plots. The bollworm boll injury in treated plots was significantly below that of the check, but

there were more injured bolls in the plots treated with methyl parathion than in the other plots. All treated plots showed an increase in yield over checks, but there were no significant differences among treated plots.

IT **35452-92-7**
RL: BIOL (Biological study)
(insect control by, on cotton)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

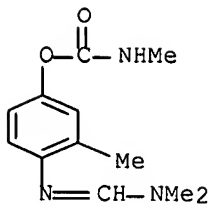


L21 ANSWER 52 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1969:511852 CAPLUS Full-text
DOCUMENT NUMBER: 71:111852
TITLE: Field performance of chemicals for control of tobacco bud-worms, bollworms and carmine spider mites on cotton, College Station, 1968
AUTHOR(S): Hanna, Ralph L.
SOURCE: Progress Report - Texas Agricultural Experiment Station (1969), No. 2670-2674, 5-6
CODEN: TAEPA4; ISSN: 0099-5142
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB Two expts. evaluated 18 insecticides and insecticidal mixts. for Heliothis control in the College Station area where the infestation was predominantly tobacco budworms. Ultra-low-volume applications of methyl parathion at 2.0 lbs./acre afforded more protection for large bolls than did other materials tested except Union Carbide 34096 [4- [[dimethylamino]methylene]amino]-m-tolyl methylcarbamate-HCl]. An experiment evaluating 11 acaricides for the control of organophosphorus-resistant carmine spider mites demonstrated that Azodrin continued to be effective. Galecron, a formamidine compound, showed promise for control of these mites.

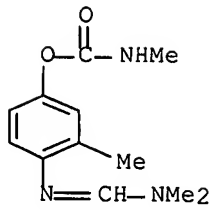
IT **35452-92-7**
RL: BIOL (Biological study)
(insect control by, on cotton)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



L21 ANSWER 53 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1969:511851 CAPLUS Full-text
DOCUMENT NUMBER: 71:111851
TITLE: Field evaluations of insecticides for control of cotton insects, Brownsville, 1968
AUTHOR(S): McGarr, Rex L.; Wolfenbarger, Dan A.
CORPORATE SOURCE: Entomol. Res. Div., Agr. Res. Serv., Brownsville, TX, USA
SOURCE: Progress Report - Texas Agricultural Experiment Station (1969), No. 2670-2674, 3-4
CODEN: TAEPA4; ISSN: 0099-5142
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB Four tests of new insecticides and combinations of insecticides were made in small plots (0.1 acre) to evaluate control of the tobacco budworm, bollworm, pink bollworm, and boll weevil. First consideration was given to control of tobacco budword as this pest now causes the most serious loss to the cotton crop and is most difficult to control. Treatments were replicated 4 times, and the insecticides were applied as low-volume sprays (5 gals. total liquid/acre) about every 4-6 days. EPN + methyl parathion, EPN, methyl parathion, malathion + methyl parathion, toxaphene + DDT + methyl parathion, and a check were compared exptl. Also compared were Azodrin, GC 6506, DuPont 1642, Carbofuran, VSC 506, UC 34096, and various mixts. None of the 14 insecticides and insecticide mixts. tested gave satisfactory control of moderate to heavy tobacco budworm infestations. High rates of methyl parathion, Azodrin, Azodrin-methyl parathion, EPN-methyl parathion, and parathion-methyl parathion halved the fruit damage and doubled the yield.
IT **35452-92-7**
RL: BIOL (Biological study)
(insect control by, on cotton)
RN 35452-92-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



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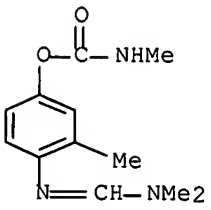
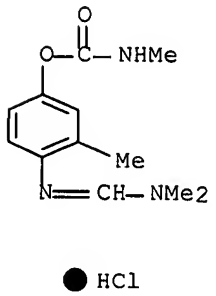
L21 ANSWER 54 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1969:460087 CAPLUS Full-text
DOCUMENT NUMBER: 71:60087
TITLE: VPI [Virginia Polytechnic Institute] cockroach research
AUTHOR(S): Grayson, James M.
CORPORATE SOURCE: Virginia Polytech. Inst., Blacksburg, VA, USA
SOURCE: Pest Control (1969), 37(4), 18, 20, 22-4
CODEN: PCONAI; ISSN: 0031-6121
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB Literature covering the development of strains of cockroaches resistant to DDT, BHC, dieldrin (I), chlordane, and malathion (II) is reviewed. A number of exptl. insecticides were tested against I-resistant, II-resistant, and normal cockroaches. They were applied to panels by the method of Grayson and Townsend (CA 57: 10288i). Excellent kills of II-resistant and normal roaches were obtained after 3 days exposure to 2% CP 47114, B 11163, and C 17018 after aging of deposits up to 60 days. Similarly UC 34096 and El 400 gave excellent kill of normal and fair to good kill of II-resistant roaches. None were very effective against I-resistant roaches.
IT **35452-92-7**, UC 34096
RL: BIOL (Biological study)
(cockroach control by)
RN 35452-92-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



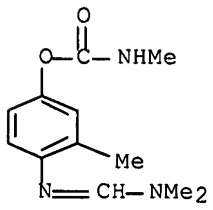
● HCl

L21 ANSWER 55 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1969:10591 CAPLUS Full-text
DOCUMENT NUMBER: 70:10591
TITLE: Control of insects infesting sweet corn ears
AUTHOR(S): Harrison, Floyd P.
CORPORATE SOURCE: Univ. of Maryland, College Park, MD, USA
SOURCE: Journal of Economic Entomology (1968), 61(5), 1463-4
CODEN: JEENAI; ISSN: 0022-0493
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB In 1965, treatment with carbaryl (I) at 2 lb./acre and carbofuran (II) at 1 lb./acre resulted in the highest percentage of ears free from corn earworm injury. Gardona (III) (2-chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate) at 1 lb./acre and II and Azodrin (IV) at 0.5 lb./acre were next in effectiveness. GS-13005 (V) (O,O-di-Me phosphorodithioate S-ester with 4-(mercaptomethyl)-2-methoxy-Δ2-1,3,4-thiadiazolin-5- one) at 0.75 lb./acre and Thiocron (O,O-di-Me phosphorodithioate S-ester with 2-mercapto-N-(2-methoxyethyl)acetamide) at 1 lb./acre were ineffective. II, I, IV, and V were most effective for control of European corn borers. In 1966, V and O,O-di-Me O-4-nitro-m-tolyl phosphorothioate (Monsanto CP-47114) at 1 lb./acre were effective in controlling earworm injury but not as effective as I at 2, IV at 1 and 2, and III at 2 lb./acre. 2-Methyl-8-quinolyl N-methylcarbamate (VI) (GS-13798) was ineffective. IV was most effective in controlling the dusky sap beetle. While treatment with IV at 2 lb./acre resulted in the highest percentage of ears uninjured by European corn borer, every compound except VI significantly reduced injury. In 1967, IV at 1 lb./acre was the most effective against earworms but was not significantly better than IV at 0.5, III at 1 and 2, I at 2, Dursban at 1, and Me 2-isopropyl-4-(methylcarbamoyloxy)carbanilate (UC-30045) at 2 lb./acre. UC-34096 (4[[(Dimethylamino)methylene]amino]-m-tolyl methylcarbamate-HCl) was the least effective. All the chems. were effective in reducing dusky sap beetle infestation. IV at 1 lb./acre resulted in the greatest protection against any insect injury although III at 1 and 2 lb./acre and I at 2 lb./acre were not significantly different. None of the materials was phytotoxic.
IT **35452-92-7**
RL: BIOL (Biological study)
(insect control by, on sweet corn ears)
RN 35452-92-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 56 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1967:516125 CAPLUS Full-text
DOCUMENT NUMBER: 67:116125
TITLE: Efficacy and persistence of active compounds towards onion fly larvae which are resistant to organochlorine insecticides
AUTHOR(S): Hennequin, Jean; Lacroix, Albert
CORPORATE SOURCE: Inst. Natl. Rech. Agron., Versailles, Fr.
SOURCE: Phytiatrie-Phytopharmacie (1966), 15(4), 277-82
CODEN: PHPHA6; ISSN: 0031-8876
DOCUMENT TYPE: Journal
LANGUAGE: French
ED Entered STN: 12 May 1984
AB The resistance of onion fly to organochlorine insecticides, particularly aldrin, led to a search for agents which would retain their activity for a period of 3.5-4 months. Those fulfilling the criteria were: trichloronate, chlorfenvinphos, carbophenothion, and diethion. Diazinon was effective for 2.5-3.5 months. Dimethoate, bromophos, and 3-methyl-4-dimethylaminomethyleneiminophenyl N-methylcarbamate had an immediate efficacy, but it did not persist. Medathion at a dose level of 1.5 kg./hectare was not effective.
IT **17702-57-7**
RL: BIOL (Biological study)
(in Hylemya antiqua (organochlorine-resistance) control)
RN 17702-57-7 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 57 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1964:421231 CAPLUS Full-text
DOCUMENT NUMBER: 61:21231
ORIGINAL REFERENCE NO.: 61:3636g-h,3637a
TITLE: Insecticide and acaricide
INVENTOR(S): Peissker, Horst; Jaeger, Albert; Steinhausen, Walter; Borosehewski, Gerhard
PATENT ASSIGNEE(S): Schering A.-G.
SOURCE: 7 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1169194		19640430	DE 1962-SC31834	19620802
BE 635767			BE	

FR 1365014	FR	
GB 987381	GB	
NL 296165	NL	
PRIORITY APPLN. INFO.:	DE	19620802

ED Entered STN: 22 Apr 2001

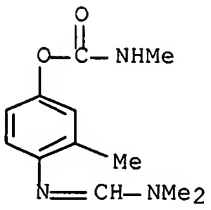
GI For diagram(s), see printed CA Issue.

AB Prepns. of the general formula (I) (R1 is a lower alkyl or cyclohexyl, R2 and R3 a lower alkyl or together with the N atom a ring containing hetero atoms, R4 a H, a lower alkyl, lower alkenyl, or Cl, and R5 a H or Me) were reported to have lasting effect in the control of insects as well as plant parasites. Twenty three derivs. (II) were tested on bean plants (Phaseolus vulgaris) infested with Tetranychus urticae. The plants were thoroughly wetted and a 100% kill observed on adult mites and maturing larvae, and a 60% to 100% kill on flies (Musca domestica) with 4 mg./cm.2 of II on a glass plate, covering a cylinder, containing 20 flies.

IT **17702-57-7**, Carbamic acid, methyl-, 4-[[(dimethylamino)methylene]amino]-m-tolyl ester
(as insecticide)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



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=> file caold; d que nos l22
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FILE COVERS 1907-1966
FILE LAST UPDATED:  01 May 1997 (19970501/UP)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.  Title keywords, authors, patent
  assignees, and patent information, e.g., patent numbers, are
  now searchable from 1907-1966.  TIFF images of CA abstracts
  printed between 1907-1966 are available in the PAGE
  display formats.

  New CAS Information Use Policies, enter HELP USAGETERMS for details.

  This file supports REGlstRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
  more information.


L6              STR
L9         2928 SEA FILE=REGISTRY SSS FUL L6
L15             STR
L16             STR
L18         400 SEA FILE=REGISTRY SUB=L9 SSS FUL ((L15 OR L16))
L20         128 SEA FILE=REGISTRY ABB=ON  PLU=ON  L18 AND ?IMIDAMIDE
L22           1 SEA FILE=CAOLD ABB=ON  PLU=ON  L20


=> d iall hitstr l22 1

L22  ANSWER 1 OF 1  CAOLD  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:  CA61:3636g  CAOLD
TITLE:             agent for use against moths and textile insect
AUTHOR NAME:       El-Hewehi, Zaki; Kipping, W.
DOCUMENT TYPE:     Patent
TITLE:             agent for use against moths and textile insects
PATENT ASSIGNEE:   VEB Farbenfabrik Wolfen
DOCUMENT TYPE:     Patent
TITLE:             insecticide and acaricide
AUTHOR NAME:       Peissker, Horst; Jaeger, A.; Steinhausen, W.; Boroschewski,
                   G.
PATENT ASSIGNEE:   Schering A.-G.
DOCUMENT TYPE:     Patent
     PATENT NO.    KIND         DATE
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PI   DE 1169192
PI   DE 1169194
     BE 635767
     FR 1365014
     GB 987381
     NL 296165
INDEX TERM:         4821-26-5    4864-66-8   17702-57-7   22259-30-9
                   24303-16-0   88858-35-9   88869-68-5   91646-57-0
                   91646-58-1   92327-23-6   92432-23-0   92432-24-1
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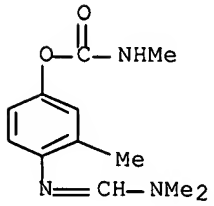
92703-64-5 92703-71-4 93086-70-5 93149-71-4
93722-50-0 94025-38-4 94297-55-9 94907-74-1
95022-46-1 97617-09-9 98494-30-5 98494-31-6

IT **17702-57-7**
RN 17702-57-7 CAOLD
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



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                E TSENG CHI/AU
L1           41 SEA ABB=ON  PLU=ON  TSENG C P/AU OR TSENG CHI P?/AU
                E US2004-510083/APPS
L2            2 SEA ABB=ON  PLU=ON  L1 AND AMIDINYLPHENYL/TI
                D SCAN
                D IALL L2 1-2
                SEL RN L2

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                -5/BI OR 180409-60-3/BI OR 1897-45-6/BI OR 220899-03-6/BI OR
                2344-83-4/BI OR 24579-73-5/BI OR 287942-16-9/BI OR 2917-47-7/BI
                 OR 3139-05-7/BI OR 39148-24-8/BI OR 40130-97-0/BI OR 4428-98-2
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L4              STR

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                D SCAN
L6              STR L4
L7            7 SEA SSS SAM L6
                D SCAN
                D L6
L*** DEL        STR L6, DIS
L*** DEL      2 S L8 SAMPLE
                D SCAN
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                DIS
                D L8
                D SCAN L5
L*** DEL        STR L8
                D L8
                D SCAN L9

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                D L4
                D L6
                D L8

     FILE 'REGISTRY' ENTERED AT 12:08:11 ON 11 MAY 2007
                D L7
                D SCAN L7
L8            7 SEA SSS SAM L6
L9         2928 SEA SSS FUL L6

     FILE 'CAPLUS' ENTERED AT 12:10:17 ON 11 MAY 2007
L10        2519 SEA ABB=ON  PLU=ON  L9

     FILE 'REGISTRY' ENTERED AT 12:10:54 ON 11 MAY 2007
                SAVE L9 PRY083FU/A TEMP

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     FILE 'ZREGISTRY' ENTERED AT 12:26:06 ON 11 MAY 2007
L11             STR L6

     FILE 'REGISTRY' ENTERED AT 13:06:54 ON 11 MAY 2007
L12         133 SEA ABB=ON  PLU=ON  L3 AND L9

     FILE 'CAPLUS' ENTERED AT 13:07:14 ON 11 MAY 2007
L13           3 SEA ABB=ON  PLU=ON  L12
                D SCAN

     FILE 'ZREGISTRY' ENTERED AT 13:08:15 ON 11 MAY 2007
L14             STR L11
L15             STR L14
L16             STR L14

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L17          19 SEA SUB=L9 SSS SAM (L15 OR L16)
                D SCAN

     FILE 'CAPLUS' ENTERED AT 13:52:08 ON 11 MAY 2007
L*** DEL      16 S L17
L*** DEL       0 S L18 AND ?IMIDAMIDE

     FILE 'REGISTRY' ENTERED AT 13:52:39 ON 11 MAY 2007
L*** DEL       2 S L17 AND ?IMIDAMIDE
                D SCAN

     FILE 'CAPLUS' ENTERED AT 13:53:52 ON 11 MAY 2007

     FILE 'REGISTRY' ENTERED AT 13:54:02 ON 11 MAY 2007
L*** DEL       0 S L17 AND ?IMIDAMIDE/IN
L*** DEL    1793 S L9 AND ?IMIDAMIDE

     FILE 'CAPLUS' ENTERED AT 13:56:49 ON 11 MAY 2007
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L*** DEL   2264 S L18

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L18         400 SEA SUB=L9 SSS FUL ((L15 OR L16))
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L19         275 SEA ABB=ON  PLU=ON  L18

     FILE 'REGISTRY' ENTERED AT 13:58:52 ON 11 MAY 2007
L20         128 SEA ABB=ON  PLU=ON  L18 AND ?IMIDAMIDE

     FILE 'CAPLUS' ENTERED AT 13:59:34 ON 11 MAY 2007
L21          57 SEA ABB=ON  PLU=ON  L20

     FILE 'CAOLD' ENTERED AT 14:00:34 ON 11 MAY 2007
L22           1 SEA ABB=ON  PLU=ON  L20
L23           0 SEA ABB=ON  PLU=ON  L1 AND FUNGICID?

     FILE 'CAPLUS' ENTERED AT 14:02:23 ON 11 MAY 2007
L24           3 SEA ABB=ON  PLU=ON  L1 AND FUNGICID?
L25          38 SEA ABB=ON  PLU=ON  L1 NOT L24
                D SCAN TI
L26          26 SEA ABB=ON  PLU=ON  L1 AND HERBICID?
L27          29 SEA ABB=ON  PLU=ON  L24 OR L26

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                D STAT QUE L18
                D QUE NOS L20

     FILE 'CAPLUS' ENTERED AT 14:06:04 ON 11 MAY 2007
                D STAT QUE NOS L21
                D IBIB ED ABS HITSTR L21 1-57

     FILE 'CAOLD' ENTERED AT 14:07:23 ON 11 MAY 2007
                D QUE NOS L22
                D IALL HITSTR L22 1


     FILE HOME

     FILE CAPLUS

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     FILE LAST UPDATED: 10 May 2007  (20070510/ED)
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DICTIONARY FILE UPDATES: 10 MAY 2007 HIGHEST RN 934586-26-2

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 MAY 2007 HIGHEST RN 934586-26-2
DICTIONARY FILE UPDATES: 10 MAY 2007 HIGHEST RN 934586-26-2

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

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FILE CAOLD
FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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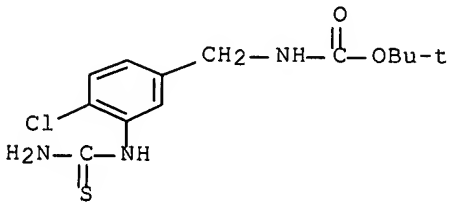
=>

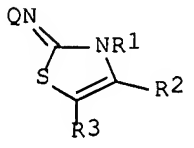
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L56 ANSWER 22 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:150232 CAPLUS Full-text
DOCUMENT NUMBER: 124:202283
TITLE: Preparation of iminothiazoline herbicides
INVENTOR(S): Takano, Minoru; Enomoto, Masayuki; Saito, Kazuo; Kizawa, Satoru
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 56 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 683160	A1	19951122	EP 1995-104917	19950403
R: CH, DE, FR, GB, LI				
JP 07324079	A	19951212	JP 1995-57762	19950316
CN 1113242	A	19951213	CN 1995-114854	19950403
US 5521145	A	19960528	US 1995-415569	19950403
BR 9501434	A	19951107	BR 1995-1434	19950404
PRIORITY APPLN. INFO.:			JP 1994-65959 A	19940404

OTHER SOURCE(S): MARPAT 124:202283
ED Entered STN: 15 Mar 1996
GI



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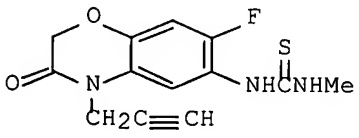

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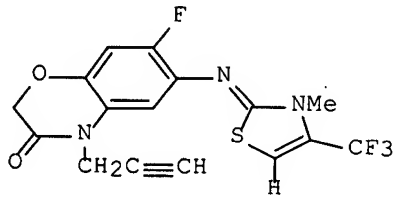
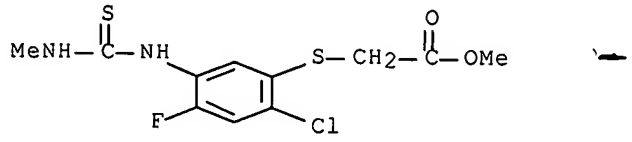


III

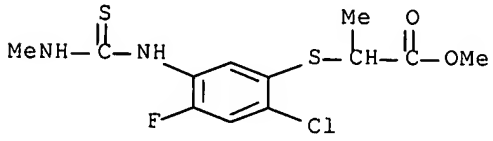
AB The title compds. [I; Q = (un)substituted Ph, (un)substituted benzo-fused (un)substituted 5-6-member heterocyclyl; R1 = (halo)alkyl, (halo)alkenyl, (halo)alkynyl; R2 = (halo)alkyl, (un)substituted aryl, formyl, cyano; R3 = hydrogen, (halo)alkyl], useful as selective herbicides, are prepared and I-containing formulations presented. Thus, benzomorpholine derivative II was reacted at reflux in PhMe with F3CCOCH2Br, producing iminothiazoline III, m.p. 119.5°, which demonstrated herbicidal activity.

IT **174262-23-8 174262-35-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of selective iminothiazoline herbicides)

RN 174262-23-8 CAPLUS
CN Acetic acid, [[2-chloro-4-fluoro-5-[[(methylamino)thioxomethyl]amino]phenyl]thio]-, methyl ester (9CI) (CA INDEX NAME)



RN 174262-35-2 CAPLUS
CN Propanoic acid, 2-[[2-chloro-4-fluoro-5-[[(methylamino)thioxomethyl]amino]phenyl]thio]-, methyl ester (9CI) (CA INDEX NAME)



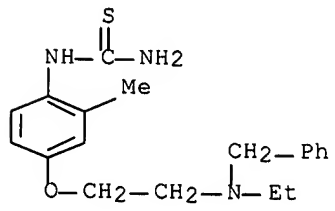
L56 ANSWER 23 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:563288 CAPLUS Full-text
DOCUMENT NUMBER: 122:314542
TITLE: Preparation of 2-(benzoylimino)benzothiazoline derivatives as antagonists of fibrinogen receptor and cell adhesion factor
INVENTOR(S): Sato, Masakazu; Mannaka, Akira; Takahashi, Keiko; Kawashima, Yutaka; Hatayama, Katsuo
PATENT ASSIGNEE(S): Taisho Pharma Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07010854	A	19950113	JP 1993-150023	19930622
JP 3132241	B2	20010205		
PRIORITY APPLN. INFO.:			JP 1993-150023	19930622

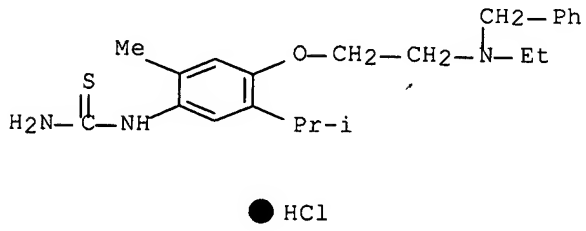
with CF3CO2H and m-chloroperbenzoic acid in MePh at <15°. for 16 h gave 89 g 2-acetoxy-5-(2-bromoethoxy)-p-cymene. Refluxing 40 g the acetoxy derivative with 17 g N-ethylbenzylamine and Et3N in EtOH for 20 h afforded 23 g I (R1 = AcO, Z = N-benzyl-N-ethylamino, n = 2), which was converted into I.maleate (II). II inhibited specific binding of prazosin or yohimbine to α-adrenergic receptor with IC50 of 5.4 + 10-8 and 6.7 + 10-7 M, resp.

IT **130994-24-0P 130994-25-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for treatment of dysuria)

RN 130994-24-0 CAPLUS
CN Thiourea, [4-[2-[ethyl(phenylmethyl)amino]ethoxy]-2-methylphenyl]- (9CI) (CA INDEX NAME)



RN 130994-25-1 CAPLUS
CN Thiourea, [4-[2-[ethyl(phenylmethyl)amino]ethoxy]-2-methyl-5-(1-methylethyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



L56 ANSWER 30 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:492415 CAPLUS Full-text
DOCUMENT NUMBER: 109:92415
TITLE: Arylformamidines with antinociceptive properties
AUTHOR(S): Gall, M.; McCall, J. M.; TenBrink, R. E.; VonVoigtlander, P. F.; Mohrland, J. S.
CORPORATE SOURCE: CNS Dis. Res. Lab., Upjohn Co., Kalamazoo, MI, 49001, USA
SOURCE: Journal of Medicinal Chemistry (1988), 31(9), 1816-20
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 109:92415
ED Entered STN: 17 Sep 1988
AB A series of formamidines, MeNRCH:NAr [R = H, Ar = 2,4-Me2C6H3, 2,5-Cl2C6H3, 3,4-Cl2C6H3, 2,6-Cl2C6H3, 2-ClC6H4, 2,3-Cl2C6H3, 2,4-Cl2C6H3, 2,4,6-Me3C6H2; R = Me, Ar = 2,6-Me2C6H3, 2,5-Cl2C6H3, 3,4-Cl2C6H3, 2,6-Cl2C6H3, 2,4,6-Me3C6H2, 2,4-Me2C6H3, 2-(3-methylpyridyl)amine, etc.], structurally related to

clonidine were synthesized starting from the reaction of anilines with HNCONHMe or Me2NCH(OMe)2 and investigated as potential nonopiate analgesics. Several of these compds. showed potent analgesic activity (ED50 on HCl writhing <1.0 mg/kg) with low potential for hypotensive effects. A qual. description of the structure-activity relationship of this series reveals that the 2,4- and 2,6-dimethylphenyl compds. are more potent analgesics than are the corresponding dichlorophenyl compds.

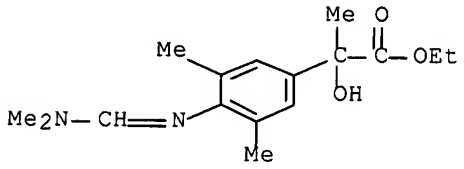
IT **114886-17-8P 114886-18-9P 114886-19-0P**
114886-20-3P 114886-22-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and analgesic activity of)

RN 114886-17-8 CAPLUS

CN Benzeneacetic acid, 4-[[(dimethylamino)methylene]amino]-α-hydroxy-α,3,5-trimethyl-, ethyl ester, mono(4-methylbenzenesulfonate) (salt) (9CI) (CA INDEX NAME)

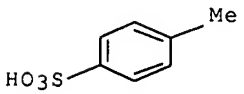
CM 1

CRN 114886-16-7
CMF C16 H24 N2 O3



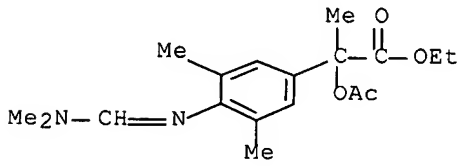
CM 2

CRN 104-15-4
CMF C7 H8 O3 S

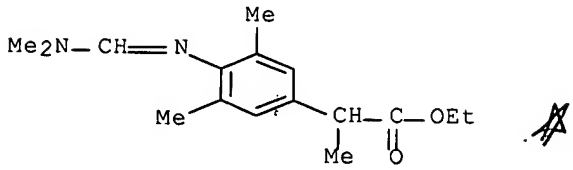


RN 114886-18-9 CAPLUS

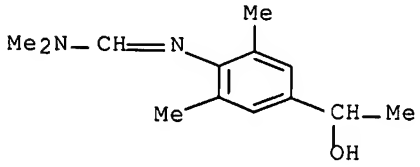
CN Benzeneacetic acid, α-(acetyloxy)-4-[[(dimethylamino)methylene]amino]-α,3,5-trimethyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 114886-19-0 CAPLUS
CN Benzeneacetic acid, 4-[[(dimethylamino)methylene]amino]-α,3,5-trimethyl-, ethyl ester (9CI) (CA INDEX NAME)



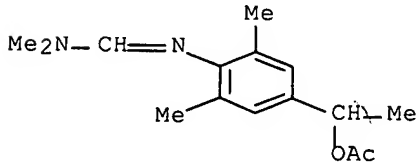
RN 114886-20-3 CAPLUS
CN Methanimidamide, N'-[4-(1-hydroxyethyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 114886-22-5 CAPLUS
CN Methanimidamide, N-[4-[1-(acetyloxy)ethyl]-2,6-dimethylphenyl]-N,N-dimethyl-, mono(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CM 1

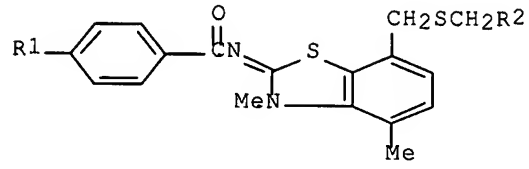
CRN 114886-21-4
CMF C15 H22 N2 O2



CM 2

CRN 104-15-4
CMF C7 H8 O3 S

OTHER SOURCE(S): MARPAT 122:314542
ED Entered STN: 23 May 1995
GI

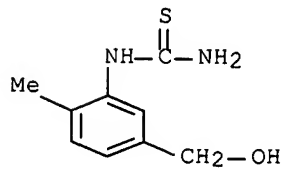


I

AB The title compds. (I; R1 = cyano, thiocarbamoyl, lower alkylthioimidoyl, amidino; R2 = CO2H, lower alkoxycarbonyl), useful for the treatment and prevention of arteriosclerosis and ischemic diseases such as thrombus, brain infarction, and myocardial infarction and as cancer metastasis inhibitors, are prepared (no data). These compds. I inhibit the binding of adhesion proteins such as fibrinogen, fibronectin, and von Willebrand factor to a fibrinogen receptor on a blood platelet and has the inhibitory activity of blood platelet aggregation and adhesion. They inhibit the binding of the above adhesion proteins and adhesion proteins forming a cellular matrix such as fibronectin and collagen and effect the intercellular interaction and the interaction between cells and a cellular matrix. Thus, benzoyl chloride was added to NH4SCN in acetone and reacted at 80° for 15 min followed by adding dropwise 3-amino-4- methylbenzyl alc. over 20 min, stirring the resulting mixture for 45 min, and saponification with 10% aqueous NaOH at 100° to give N-(5-hydroxymethyl-2- methylphenyl)thiourea. The latter compound was brominated with Br in AcOH at 90° for 2 h to give 2-amino-7-bromomethyl-4-methylbenzothiazole which was condensed with Et thioglycolate in the presence of K2CO3 in DMF at room overnight to give 2-amino-7-ethoxycarbonylmethylthiomethyl-4- methylbenzothiazole. This was acylated by 4-cyanobenzoyl chloride in Et3N in CH2Cl2 to give 2-(4-cyanobenzoylamino)-7-ethoxycarbonylmethylthiomethyl- 4-methylbenzothiazole which was treated with NaH in DMF at room temperature and then methylated by MeI to give a title compound I (R1 = cyano, R2 = CO2Et).

IT **163217-86-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate for preparation of (benzoylimino)benzothiazoline derivs. as antagonists of fibrinogen receptor and cell adhesion factor)

RN 163217-86-5 CAPLUS
CN Thiourea, [5-(hydroxymethyl)-2-methylphenyl]- (9CI) (CA INDEX NAME)



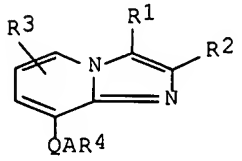
L56 ANSWER 24 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:330513 CAPLUS Full-text

DOCUMENT NUMBER: 122:105879
TITLE: Preparation of imidazo[1,2-a]pyridines as bradykinin antagonists.
INVENTOR(S): Oku, Teruo; Kayakiri, Hiroshi; Satoh, Shigeki; Abe, Yoshito; Yuki, Sawada; Tanaka, Hirokazu
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 117 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 596406	A1	19940511	EP 1993-117474	19931028
EP 596406	B1	19981216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AU 9350242	A	19940512	AU 1993-50242	19931026
AU 686115	B2	19980205		
ZA 9308011	A	19940609	ZA 1993-8011	19931027
IL 107426	A	19970713	IL 1993-107426	19931027
AT 174596	T	19990115	AT 1993-117474	19931028
ES 2125294	T3	19990301	ES 1993-117474	19931028
CA 2102137	A1	19940503	CA 1993-2102137	19931101
CN 1089947	A	19940727	CN 1993-119684	19931101
HU 66302	A2	19941128	HU 1993-3119	19931102
JP 07300478	A	19951114	JP 1993-274643	19931102
JP 2763036	B2	19980611		
US 5574042	A	19961112	US 1995-441786	19950516
US 5750699	A	19980512	US 1996-662198	19960612

PRIORITY APPLN. INFO.:
GB 1992-22947 A 19921102
GB 1993-4249 A 19930303
US 1993-142967 B2 19931029
US 1994-235632 B1 19940429
US 1995-441786 A3 19950516

OTHER SOURCE(S): MARPAT 122:105879
ED Entered STN: 04 Feb 1995
GI



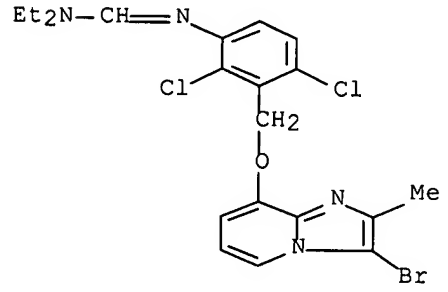
I

AB Title compds. [I; R1 = halo; R2, R3 = H, alkyl, haloalkyl, acyl, R4 = aryl having suitable substituent(s), heterocyclyl optionally having suitable substituent(s); Q = O or NR11; R11 = H, acyl; and A = alkylene], were prepared Thus, 8-(2,6-dichloro-3-nitrobenzyloxy)-2-methylimidazo[1,2- a]pyridine was stirred with N-bromosuccinimide in EtOH/dioxane to give 3-bromo-8-(2,6-dichloro-3-nitrobenzyloxy)-2-methylimidazo[1,2-a]pyridine. I at 10-5 M gave 95-100% inhibition of 3H-bradykinin binding to guinea pig ileum prepns.
IT **160642-03-5P 160642-04-6P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as bradykinin antagonist)

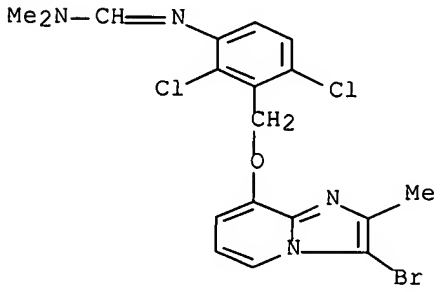
RN 160642-03-5 CAPLUS

CN Methanimidamide, N'-[3-[[(3-bromo-2-methylimidazo[1,2-a]pyridin-8-yl)oxy]methyl]-2,4-dichlorophenyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



RN 160642-04-6 CAPLUS

CN Methanimidamide, N'-[3-[[(3-bromo-2-methylimidazo[1,2-a]pyridin-8-yl)oxy]methyl]-2,4-dichlorophenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L56 ANSWER 25 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:326725 CAPLUS Full-text

DOCUMENT NUMBER: 122:133072

TITLE: An efficient synthesis of chloroethylclonidine

AUTHOR(S): Zhang, Wei-Yi; Bakthavachalam, Venkatesalu; Gao, Yigong; White, William L.; Neumeyer, John L.

CORPORATE SOURCE: Research Biochemicals International, Natick, MA, MA01760, USA

SOURCE: Heterocycles (1994), 39(1), 19-22
CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

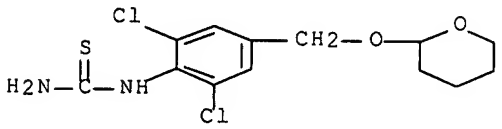
ED Entered STN: 01 Feb 1995

AB An efficient method for the preparation of chloroethylclonidine dihydrochloride starting from 3,5,4-Cl2(H2N)C6H2CO2H is described.

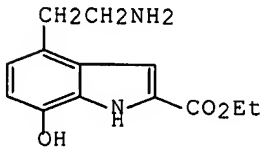
IT **161065-20-9P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of chloroethylclonidine dihydrochloride)

RN 161065-20-9 CAPLUS
CN Thiourea, [2,6-dichloro-4-[[(tetrahydro-2H-pyran-2-yl)oxy]methyl]phenyl]- (9CI) (CA INDEX NAME)

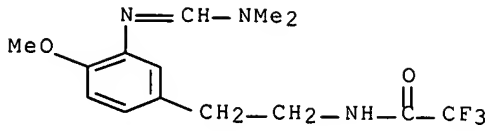


L56 ANSWER 26 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:106627 CAPLUS Full-text
DOCUMENT NUMBER: 120:106627
TITLE: Synthesis and pharmacological evaluation of tyramine congeners containing fused heterocyclic rings
AUTHOR(S): Norcini, G.; Allievi, L.; Bertolini, G.; Casagrande, C.; Miragoli, G.; Santangelo, F.; Semeraro, C.
CORPORATE SOURCE: Zambon Group, Bresso, 20091, Italy
SOURCE: European Journal of Medicinal Chemistry (1993), 28(6), 505-11
CODEN: EJMCA5; ISSN: 0223-5234
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 120:106627
ED Entered STN: 05 Mar 1994
GI



I

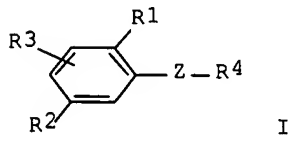
AB A series of tyramine congeners carrying a fused heterocyclic ring were synthesized with the aim of combining the pos. inotropic effect of the cardiac phosphodiesterase III inhibitors with the vasodilatory effect of heterocyclic dopamine receptor agonists. None of the compds. showed the desired combination of properties. 2-Ethoxycarbonyl-4-(2-aminoethyl)-7- hydroxyindole (I) elicited a marked hypotensive effect in spontaneously hypertensive rats.
IT **152530-17-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with Et cyanoacetate)
RN 152530-17-1 CAPLUS
CN Acetamide, N-[2-[3-[[(dimethylamino)methylene]amino]-4-methoxyphenyl]ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



L56 ANSWER 27 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:207567 CAPLUS Full-text
DOCUMENT NUMBER: 118:207567
TITLE: Preparation of phenylthioureas as insecticides and acaricides.
INVENTOR(S): Sugizaki, Hiroyasu; Kawada, Shuji; Hotta, Hiroki; Mikage, Tomoji; Kodama, Seiichiro; Konishi, Kenji
PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04279562	A	19921005	JP 1991-65346	19910307

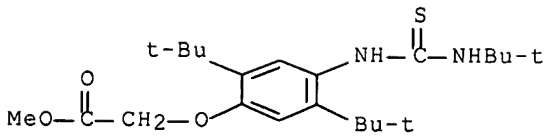
PRIORITY APPLN. INFO.: JP 1991-65346 19910307
OTHER SOURCE(S): MARPAT 118:207567
ED Entered STN: 29 May 1993
GI



I

AB Insecticides and acaricides contain phenylthioureas I [R1, R2 = lower alkyl, C3-6 cycloalkyl, lower alkoxy, lower alkylthio, lower alkylsulfenyl, lower alkoxycarbonyl; R3 = H, lower alkyl, (halo- or alkoxycarbonyl-substituted) lower alkoxy; R4 = lower alkyl, cycloalkyl; Z = NHCSNH, N:C(SR5)NH; R5 = lower alkyl, allyl] as active ingredients. 2,5-Di-tert-butylphenyl isothiocyanate was treated with tert-butylamine in toluene at 50° for 5 h to give 84.5% N-(2,5-di-tert-butylphenyl)-N'- tert-butylthiourea (II). Cabbage leaves treated with 200 ppm II were lethal to Plutella maculipennis larvae.

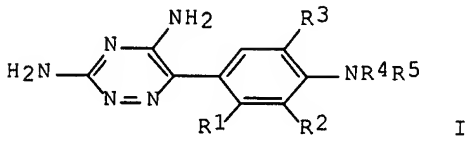
IT **147345-68-4P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as insecticide and acaricide)
RN 147345-68-4 CAPLUS
CN Acetic acid, [2,5-bis(1,1-dimethylethyl)-4-[[[(1,1-dimethylethyl)amino]thioxomethyl]amino]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



L56 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1992:128970 CAPLUS Full-text
DOCUMENT NUMBER: 116:128970
TITLE: Preparation of 6-aminophenyl-3,5-diamino-1,2,4-triazines as neuroprotective agents
INVENTOR(S): Leach, Michael John; Nobbs, Malcolm Stuart
PATENT ASSIGNEE(S): Wellcome Foundation Ltd., UK
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 459829	A1	19911204	EP 1991-304962	19910531
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 9104158	A	19930301	ZA 1991-4158	19910530
CA 2043642	A1	19911202	CA 1991-2043642	19910531
FI 9102622	A	19911202	FI 1991-2622	19910531
AU 9178099	A	19911205	AU 1991-78099	19910531
AU 630811	B2	19921105		
HU 60726	A2	19921028	HU 1991-1827	19910531
JP 06025193	A	19940201	JP 1991-235335	19910531

PRIORITY APPLN. INFO.: GB 1990-12312 A 19900601
OTHER SOURCE(S): MARPAT 116:128970
ED Entered STN: 03 Apr 1992
GI

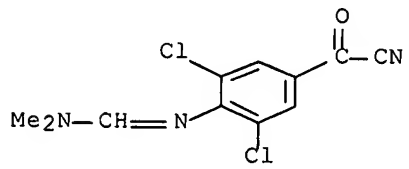


I

AB Title compds. (I; 1 of R1-R3 = Cl and the others = H or Cl; R4, R5 = H, alkyl) were prepared Thus, 2,5,3-Cl2(H2N)C6H2CO2H was converted in 3 steps to 2,3,5-Cl3C6H2COCN which was cyclocondensed with H2NC(:NH)NHNH2 and the product nitrated to give, after reduction, I (R1-R3 = Cl, R4 = R5 = H). The latter had IC50 of <10 μM against glutamate release from rat brain slices.

IT **139400-99-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of neuroprotectants)

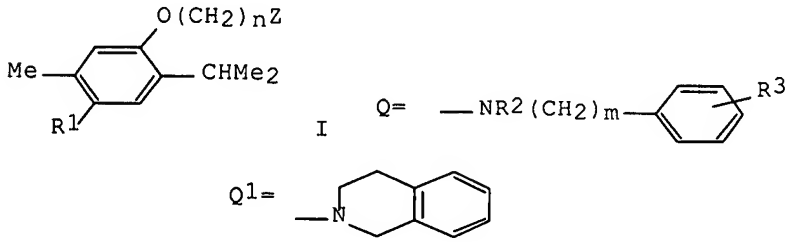
RN 139400-99-0 CAPLUS
CN Methanimidamide, N'-[2,6-dichloro-4-(cyanocarbonyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



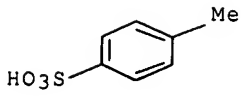
L56 ANSWER 29 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:42272 CAPLUS Full-text
DOCUMENT NUMBER: 114:42272
TITLE: Preparation of (aminoalkoxy)benzenes and pharmaceuticals containing them for treatment of dysuria
INVENTOR(S): Kimura, Kiyoshi; Shimomura, Suetaka; Kise, Masahiro; Murase, Masao; Shirochi, Yoshiaki
PATENT ASSIGNEE(S): Nippon Shinyaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02202857	A	19900810	JP 1989-23460	19890131
JP 08016086	B	19960221		

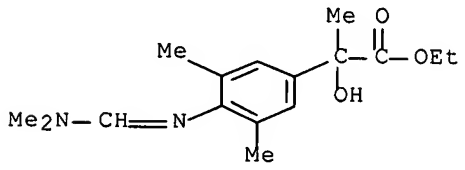
PRIORITY APPLN. INFO.: JP 1989-23460 19890131
OTHER SOURCE(S): CASREACT 114:42272; MARPAT 114:42272
ED Entered STN: 09 Feb 1991
GI



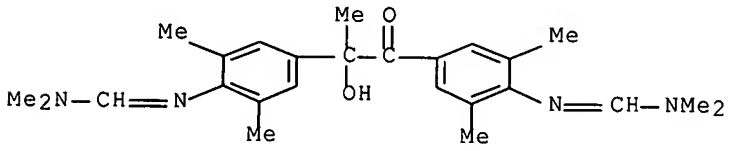
AB Dysuria-controlling pharmaceuticals, which do not show hypotensive effect, contain title compds. I [R1 = H, OH, MeO, Ac, AcO, isopropoxycarboxy, (2-imidazolin-2-yl)methoxy, guanidino, thioureido, AcNH, halo; Z = Q, Q1; R2 = alkyl, cycloalkyl, aryl, aromatic heterocyclyl; R3 = H, alkyl, alkoxy, halo; m = 0-2; n = 2, 3] or their pharmacol. acceptable salts as active ingredients. Treatment of 100 g 2-acetyl-5-(2-bromoethoxy)-p-cymene (preparation given)



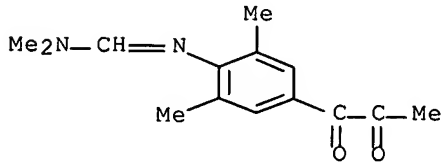
IT **114886-16-7P 114886-26-9P 114886-27-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 114886-16-7 CAPLUS
CN Benzeneacetic acid, 4-[[(dimethylamino)methylene]amino]-α-hydroxy-α,3,5-trimethyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 114886-26-9 CAPLUS
CN Methanimidamide, N',N'''-[(1-hydroxy-1-methyl-2-oxo-1,2-ethanediyl)bis(2,6-dimethyl-4,1-phenylene)]bis[N,N-dimethyl- (9CI) (CA INDEX NAME)

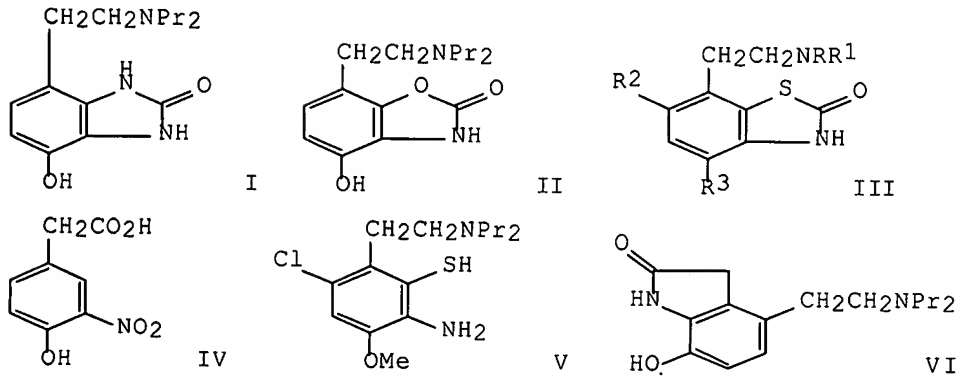


RN 114886-27-0 CAPLUS
CN Methanimidamide, N'-[4-(1,2-dioxopropyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

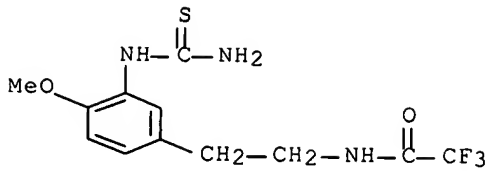


L56 ANSWER 31 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:477705 CAPLUS Full-text
DOCUMENT NUMBER: 107:77705
TITLE: Synthesis and evaluation of non-catechol D-1 and D-2 dopamine receptor agonists: benzimidazol-2-one, benzoxazol-2-one, and the highly potent: benzothiazol-2-one 7-ethylamines

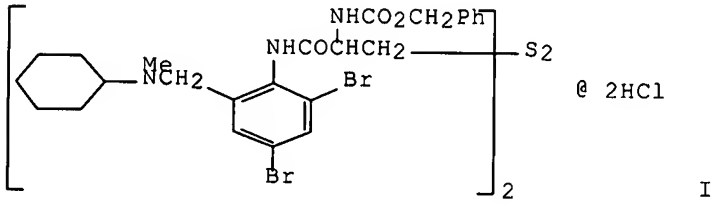
AUTHOR(S): Weinstock, Joseph; Gaitanopoulos, Dimitri E.; Stringer, Orum D.; Franz, Robert G.; Hieble, J. Paul; Kinter, Lewis B.; Mann, William A.; Flaim, Kathryn E.; Gessner, George
CORPORATE SOURCE: Dep. Med. Chem., Smith Kline and French Lab., Swedeland, PA, 19479, USA
SOURCE: Journal of Medicinal Chemistry (1987), 30(7), 1166-76
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 107:77705
ED Entered STN: 05 Sep 1987
GI



AB Title heterocyclic compds. I, II, and III (R = R1 = Pr, R2 = H, Cl, R3 = OH; R = R1 = Pr, H, R2 = R3 = H; R = R2 = H, R1 = H, Me, R3 = OH) were prepared by standard methods. Thus, III (R = R1 = Pr, R2 = Cl, R3 = OH) was prepared from phenylacetic acid IV in several steps in which the key step was the cyclization of aminobenzenethiol V with COCl2 to give III (R = R1 = Pr, R2 = Cl, R3 = OMe). These compds. were evaluated for their affinity and agonist activity at D-1 and D-2 receptors by using in vitro assays. Replacement of the m-hydroxyl in N,N-dipropyldopamine with the thiazol-2-one group resulted in a dramatic increase in D-2 receptor affinity and activity compared to that of N,N-dipropyldopamine or to that of oxindole VI. III (R = R1 = Pr, R2 = H, R3 = OH) is the most potent D-2 receptor agonist reported to date in the field-stimulated rabbit ear artery (ED50 = 0.028 nM). I and II showed D-2 receptor agonist potency similar to that of VI.
IT **108773-11-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 108773-11-1 CAPLUS
CN Acetamide, N-[2-[3-[(aminothioxomethyl)amino]-4-methoxyphenyl]ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



L56 ANSWER 32 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:213351 CAPLUS Full-text
DOCUMENT NUMBER: 104:213351
TITLE: Analytical profile of REC 15-1884-2, a new compound with expectorant activity
AUTHOR(S): Guenzi, A.; Cappelletti, R.; Esposito, R.; Polidori, M.; Leonardi, A.
CORPORATE SOURCE: Chem. Res. Dep., Recordati S.p.A., Milan, Italy
SOURCE: Bollettino Chimico Farmaceutico (1985), 124(11), 451-68
CODEN: BCFAAI; ISSN: 0006-6648
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 14 Jun 1986
GI

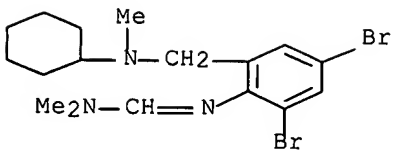


I

AB The IR, UV, NMR and 13C-NMR and mass spectral properties REC 15-1884-2 (I) [86042-51-5] having expectorant activity are described. The TLC and HPLC gas chromatog. of I are discussed. The synthesis of I, and impurities obtained during the preparation of I and related compds. are described.

IT **102203-29-2P**
RL: PREP (Preparation)
(preparation of)

RN 102203-29-2 CAPLUS
CN Methanimidamide, N'-[2,4-dibromo-6-[(cyclohexylmethylamino)methyl]phenyl]-N,N-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L56 ANSWER 33 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:510916 CAPLUS Full-text
DOCUMENT NUMBER: 101:110916
TITLE: Herbicidal o-Halobenzoic acid derivatives.
INVENTOR(S): Shimano, Shizuo; Kobayashi, Shinichi; Yanagi, Mikio; Yamada, Osamu; Saito, Mikio; Futatsuya, Fumio
PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd. , Japan
SOURCE: Eur. Pat. Appl., 46 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

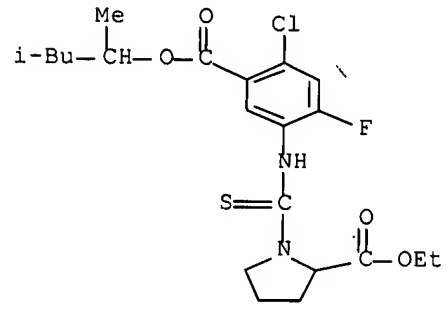
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 104532	A1	19840404	EP 1983-108992	19830912
EP 104532	B1	19861203		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
JP 59048481	A	19840319	JP 1982-158228	19820913
JP 59065070	A	19840413	JP 1982-175175	19821005
ZA 8306359	A	19840425	ZA 1983-6359	19830826
AU 8318506	A	19840322	AU 1983-18506	19830829
AU 563282	B2	19870702		
US 4531964	A	19850730	US 1983-527493	19830829
IL 69615	A	19860831	IL 1983-69615	19830831
CA 1210766	A1	19860902	CA 1983-436085	19830906
DK 8304072	A	19840314	DK 1983-4072	19830908
BR 8304926	A	19840424	BR 1983-4926	19830912
HU 31927	A2	19840628	HU 1983-3173	19830912
HU 192160	B	19870528		
AT 24004	T	19861215	AT 1983-108992	19830912

PRIORITY APPLN. INFO.:
JP 1982-158228 A 19820913
JP 1982-175175 A 19821005
EP 1983-108992 A 19830912

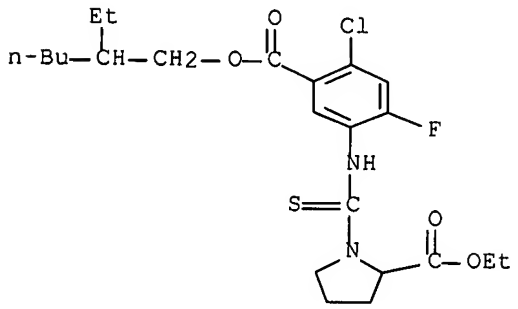
OTHER SOURCE(S): CASREACT 101:110916; MARPAT 101:110916
ED Entered STN: 29 Sep 1984
GI For diagram(s), see printed CA Issue.
AB The title compds. I (R1 = H, halo, R2 = halo, R3 = H, C1-8 alkyl, alkoxyalkyl; X = O, S; Q = Q1, Q2; n = 3, 4), useful as pre- and postemergent herbicides, were prepared Thus, isocyanate II was added to Et 2-piperidinecarboxylate in C6H6 1 h at 40-50° to give 83.2% III which underwent intramol. cyclocondensation to give 71.9% hydantoin I [R1 = F, R2 = Cl, R3 = Me2CH, Q = Q1 (X = O, n = 4) which, based on herbicidal data is the most preferred compound
IT **91624-28-1P 91624-30-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and herbicidal activity of)

RN 91624-28-1 CAPLUS
CN Proline, 1-[[[4-chloro-5-[(1,3-dimethylbutoxy)carbonyl]-2-fluorophenyl]amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 91624-30-5 CAPLUS
CN Proline, 1-[[[4-chloro-5-[[(2-ethylhexyl)oxy]carbonyl]-2-fluorophenyl]amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



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SEARCH HISTORY

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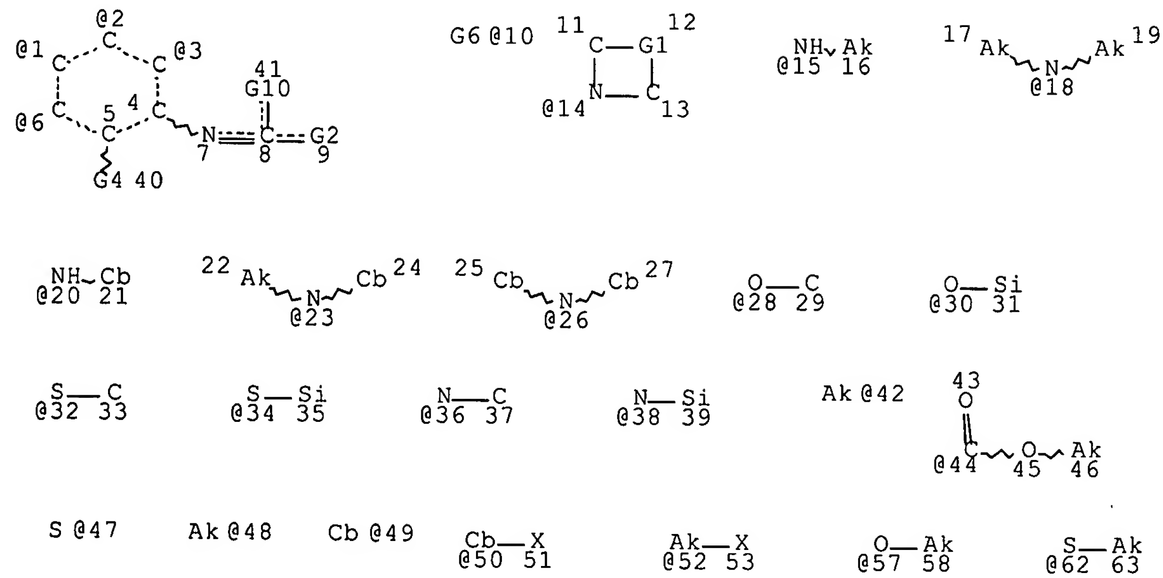
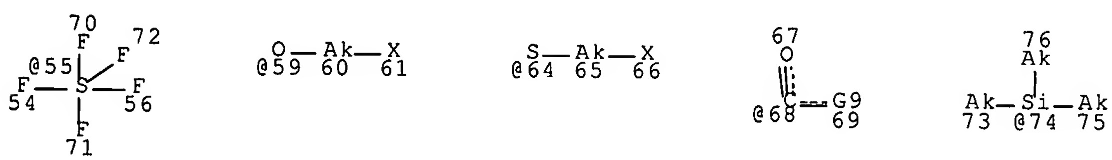


Page 1-A



Page 2-A

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CONNECT IS E1   RC AT   17
CONNECT IS E1   RC AT   19
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CONNECT IS E1   RC AT   42
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CONNECT IS E1   RC AT   49
CONNECT IS E1   RC AT   58
CONNECT IS E1   RC AT   63
CONNECT IS E1   RC AT   73
CONNECT IS E1   RC AT   75
CONNECT IS E1   RC AT   76
DEFAULT MLEVEL IS ATOM
```

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MLEVEL  IS CLASS  AT  16 17 19 21 22 24 25 27 42 46 48 49 50 51 52 53 58
          60 61 63 65 66 73 75 76
GGCAT   IS SAT  AT  21
GGCAT   IS SAT  AT  24
GGCAT   IS SAT  AT  25
GGCAT   IS SAT  AT  27
GGCAT   IS SAT  AT  49
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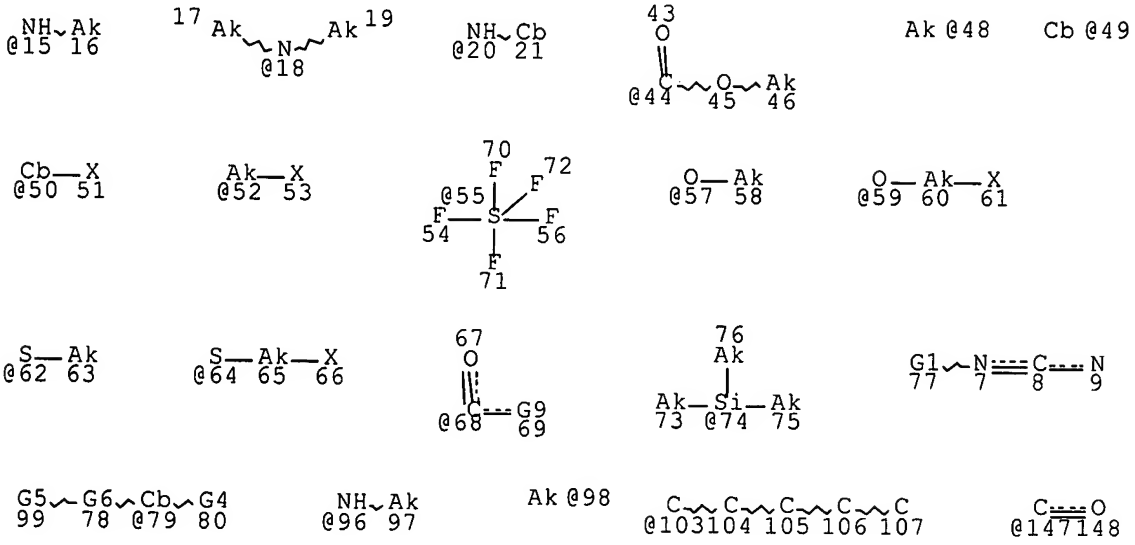
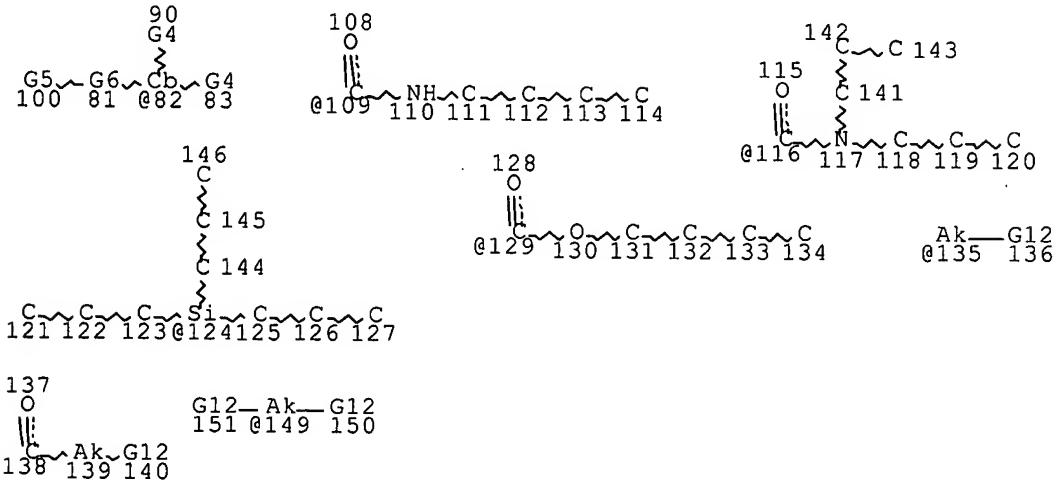


Page 1-A



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REP G6=(0-1) Q
VAR G9=96/18/H/OH/NH2/98
VAR G12=147/N/O/S/SI
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CONNECT IS E1  RC AT  75
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CONNECT IS E4  RC AT  82
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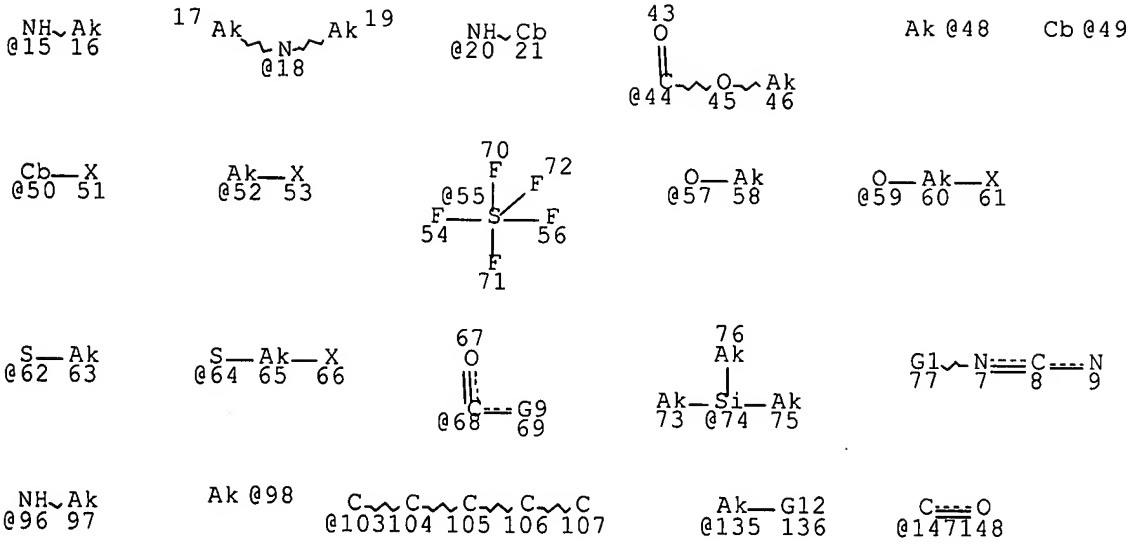

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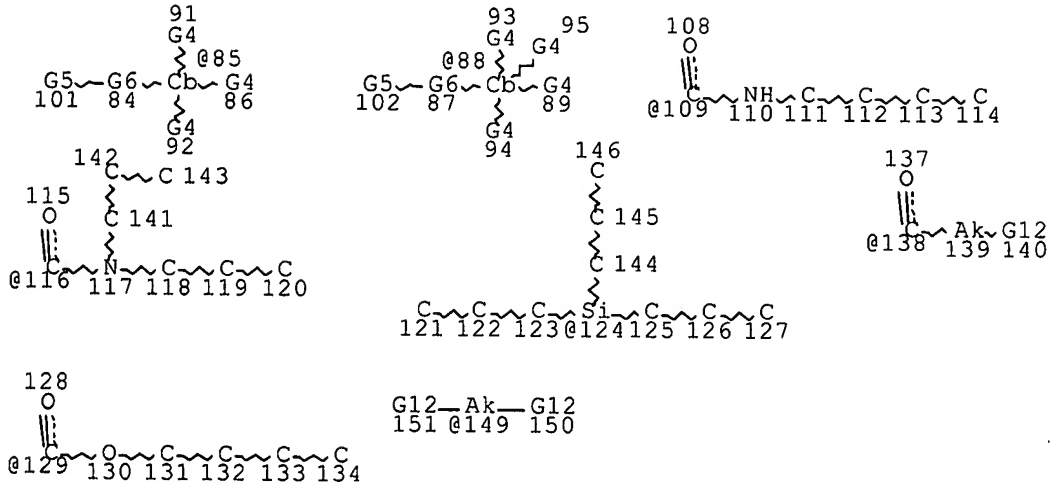

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VAR G12=147/N/O/S/SI
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MLEVEL  IS CLASS  AT  16 17 19 21 46 48 49 50 51 52 53 58 60 61 63 65 66
          73 75 76 85 88 97 98
GGCAT   IS LOC  AT  21
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GGCAT   IS MCY  LOC  UNS  AT  88
DEFAULT ECLEVEL IS LIMITED
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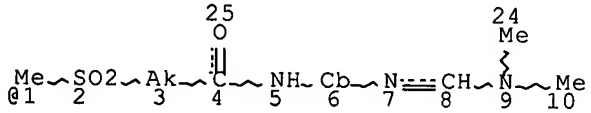

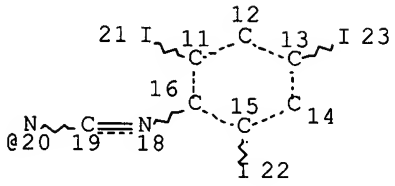


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ECOUNT  IS E3 C  AT   3

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NUMBER OF NODES IS  25

STEREO ATTRIBUTES: NONE
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SEARCH TIME: 00.00.01



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               ACT PRY083REG1/A
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                -2/BI OR 623160-04-3/BI OR 623160-05-4/BI OR 623160-06-5/BI OR
                623160-07-6/BI OR 623160-08-7/BI OR 623160-09-8/BI OR 623160-10
                -1/BI OR 623160-11-2/BI OR 623160-12-3/BI OR 623160-13-4/BI OR
                623160-14-5/BI OR 623160-15-6/BI OR 623160-16-7/BI OR 623160-17
                -8/BI OR 623160-18-9/BI OR 623160-19-0/BI OR 623160-20-3/BI OR
                623160-21-4/BI OR 623160-22-5/BI OR 623160-23-6/BI OR 623160-24
                -7/BI OR 623160-25-8/BI OR 623160-26-9/BI OR 623160-27-0/BI OR
                623160-28-1/BI OR 623160-29-2/BI OR 623160-30-5/BI OR 623160-31
                -6/BI OR 623160-32-7/BI OR 623160-33-8/BI OR 623160-34-9/BI OR
                623160-35-0/BI OR 623160-36-1/BI OR 623160-37-2/BI OR 623160-38
                -3/BI OR 623160-39-4/BI OR 623160-40-7/BI OR 623160-41-8/BI OR
                623160-42-9/BI OR 623160-43-0/BI OR 623160-44-1/BI OR 623160-45
                -2/BI OR 623160-46-3/BI OR 623160-47-4/BI OR 623160-48-5/BI OR
                623160-49-6/BI OR 623160-50-9/BI OR 623160-51-0/BI OR 623160-52
                -1/BI OR 623160-53-2/BI OR 623160-54-3/BI OR 623160-55-4/BI OR
                623160-56-5/BI OR 623160-57-6/BI OR 623160-58-7/BI OR 623160-59
                -8/BI OR 623160-60-1/BI OR 623160-61-2/BI OR 623160-62-3/BI OR
                623160-63-4/BI OR 623160-64-5/BI OR 623160-65-6/BI OR 623160-66
                -7/BI OR 623160-67-8/BI OR 623160-68-9/BI OR 623160-69-0/BI OR
                623160-70-3/BI OR 623160-71-4/BI OR 623160-72-5/BI OR 623160-73
                -6/BI OR 623160-74-7/BI OR 623160-75-8/BI OR 623160-76-9/BI OR
                623160-77-0/BI OR 623160-
```

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                ---------
                 ACT PRY083REG2/A
                ---------
L3   (       220)SEA ABB=ON  (2344-83-4/BI OR 287942-16-9/BI OR 2917-47-7/BI OR
                 3139-05-7/BI OR 40130-97-0/BI OR 4428-98-2/BI OR 4637-24-5/BI
                 OR 5163-20-2/BI OR 5847-57-4/BI OR 623-93-8/BI OR 623159-75-1/B
                 I OR 623159-76-2/BI OR 623159-77-3/BI OR 623159-78-4/BI OR
                 623159-79-5/BI OR 623159-80-8/BI OR 623159-81-9/BI OR 623159-82
                 -0/BI OR 623159-83-1/BI OR 623159-84-2/BI OR 623159-85-3/BI OR
                 623159-86-4/BI OR 623159-87-5/BI OR 623159-88-6/BI OR 623159-89
                 -7/BI OR 623159-90-0/BI OR 623159-91-1/BI OR 623159-92-2/BI OR
                 623159-93-3/BI OR 623159-94-4/BI OR 623159-95-5/BI OR 623159-96
                 -6/BI OR 623159-97-7/BI OR 623159-98-8/BI OR 623159-99-9/BI OR
                 623160-00-9/BI OR 623160-01-0/BI OR 623160-02-1/BI OR 623160-03
                 -2/BI OR 623160-04-3/BI OR 623160-05-4/BI OR 623160-06-5/BI OR
                 623160-07-6/BI OR 623160-08-7/BI OR 623160-09-8/BI OR 623160-10
                 -1/BI OR 623160-11-2/BI OR 623160-12-3/BI OR 623160-13-4/BI OR
                 623160-14-5/BI OR 623160-15-6/BI OR 623160-16-7/BI OR 623160-17
                 -8/BI OR 623160-18-9/BI OR 623160-19-0/BI OR 623160-20-3/BI OR
                 623160-21-4/BI OR 623160-22-5/BI OR 623160-23-6/BI OR 623160-24
                 -7/BI OR 623160-25-8/BI OR 623160-26-9/BI OR 623160-27-0/BI OR
                 623160-28-1/BI OR 623160-29-2/BI OR 623160-30-5/BI OR 623160-31
                 -6/BI OR 623160-32-7/BI OR 623160-33-8/BI OR 623160-34-9/BI OR
                 623160-35-0/BI OR 623160-36-1/BI OR 623160-37-2/BI OR 623160-38
                 -3/BI OR 623160-39-4/BI OR 623160-40-7/BI OR 623160-41-8/BI OR
                 623160-42-9/BI OR 623160-43-0/BI OR 623160-44-1/BI OR 623160-45
                 -2/BI OR 623160-46-3/BI OR 623160-47-4/BI OR 623160-48-5/BI OR
                 623160-49-6/BI OR 623160-50-9/BI OR 623160-51-0/BI OR 623160-52
                 -1/BI OR 623160-53-2/BI OR 623160-54-3/BI OR 623160-55-4/BI OR
                 623160-56-5/BI OR 623160-57-6/BI OR 623160-58-7/BI OR 623160-59
                 -8/BI OR 623160-60-1/BI OR 623160-61-2/BI OR 623160-62-3/BI OR
                 623160-63-4/BI OR 623160-64-5/BI OR 623160-65-6/BI OR 623160-66
                 -7/BI OR 623160-67-8/BI OR 623160-68-9/BI OR 623160-69-0/BI OR
                 623160-70-3/BI OR 623160-71-4/BI OR 623160-72-5/BI OR 623160-73
                 -6/BI OR 623160-74-7/BI OR 623160-75-8/BI OR 623160-76-9/BI OR
                 623160-77-0/BI OR 623160-
L4             8 SEA ABB=ON  L3 AND NR>1
                ---------
L5               STR L1
L6            12 SEA SSS SAM L5
                 D SCAN

     FILE 'CAPLUS' ENTERED AT 11:23:17 ON 09 MAY 2007
L7             6 SEA ABB=ON  L6

     FILE 'STNGUIDE' ENTERED AT 11:23:30 ON 09 MAY 2007

     FILE 'REGISTRY' ENTERED AT 11:24:18 ON 09 MAY 2007
L8            12 SEA SSS SAM L5
L9        866524 SEA SSS FUL L5 EXTEND
L10         4331 SEA SSS FUL L5
                 SAVE TEMP L10 PRY083FULL/A

     FILE 'STNGUIDE' ENTERED AT 11:25:40 ON 09 MAY 2007

     FILE 'REGISTRY' ENTERED AT 11:31:15 ON 09 MAY 2007
L11              STR
L12              STR L5
                 SAVE TEMP L12 PRY083STR2/Q
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     FILE 'STNGUIDE' ENTERED AT 11:39:02 ON 09 MAY 2007

     FILE 'REGISTRY' ENTERED AT 11:42:27 ON 09 MAY 2007
               D QUE
L13          50 SEA SUB=L10 SSS SAM L12
               D SCAN
               D STAT QUE
L14            STR L12
               SAVE TEMP L14 PRY083STR3/Q
               D QUE L10
L15            STR L14
L16          20 SEA SSS SAM L15
L17            STR L14
L18           0 SEA SSS SAM L17
L19          37 SEA SUB=L10 SSS SAM (L15 OR L17)
L20            STR L15
               D QUE
L21            STR L17
L22           9 SEA SSS SAM L20
L23           0 SEA SSS SAM L21
L24           6 SEA SUB=L10 SSS SAM L20
L25        4331 SEA SUB=L10 SSS FUL L20 EXTEND
L26         240 SEA SUB=L10 SSS FUL L20
               SAVE TEMP L26 PRY083SUB1/A
L27        4331 SEA SUB=L10 SSS FUL L21 EXTEND
L28         127 SEA SUB=L10 SSS FUL L21
               SAVE TEMP L28 PRY083SUB2/A
L29         367 SEA ABB=ON  (L26 OR L28)
               SAVE TEMP L29 PRY083SUB3/A

     FILE 'CAPLUS' ENTERED AT 15:37:24 ON 09 MAY 2007
L30         197 SEA ABB=ON  L29
L31      236347 SEA ABB=ON  ?FUNG?/BI
L32          10 SEA ABB=ON  L30 AND L31
L33           5 SEA ABB=ON  L30(L)AGR/RL
L34      324332 SEA ABB=ON  5/SC,SX
L35           9 SEA ABB=ON  L34 AND L30
L36         175 SEA ABB=ON  L30 AND (PY<2002 OR AY<2002 OR PRY<2002)

     FILE 'STNGUIDE' ENTERED AT 15:39:52 ON 09 MAY 2007

     FILE 'CAPLUS' ENTERED AT 15:40:54 ON 09 MAY 2007
L37             ANALYZE L36 1- RN HIT :     148 TERMS
                D 1-20

     FILE 'REGISTRY' ENTERED AT 15:42:01 ON 09 MAY 2007
L38           1 SEA ABB=ON  1221-56-3
L39           1 SEA ABB=ON  5587-89-3
L40           1 SEA ABB=ON  1151-11-7
L41         364 SEA ABB=ON  L29 NOT (L38 OR L39 OR L40)

     FILE 'CAPLUS' ENTERED AT 15:42:23 ON 09 MAY 2007
L42          62 SEA ABB=ON  L41
L43          51 SEA ABB=ON  L42 AND L36

     FILE 'REGISTRY' ENTERED AT 15:42:53 ON 09 MAY 2007
               D SCAN L38
               D SCAN L39
               D SCAN L40
L44            STR
```

```
L45             STR L44
L46           8 SEA SSS SAM L45
                D QUE
L47             STR L45
L48          13 SEA SSS SAM L47
L49           6 SEA SUB=L29 SSS SAM (L5 NOT L47)
                D SCAN
L50         367 SEA SUB=L29 SSS FUL (L5 NOT L47) EXTEND
L51         267 SEA SUB=L29 SSS FUL (L5 NOT L47)
                SAVE TEMP L51 PRY083SUB4/A
                D QUE NOS

     FILE 'CAPLUS' ENTERED AT 16:05:27 ON 09 MAY 2007
L52          35 SEA ABB=ON  L51
                D SAVED
                ACT PRY083CAAU/A
               ---------
L53           1 SEA ABB=ON  US2003-510083/AP
               ---------
L54        1522 SEA ABB=ON  TSENG C?/AU
L55           2 SEA ABB=ON  (L52 AND L54) OR L53

     FILE 'CAPLUS' ENTERED AT 16:07:18 ON 09 MAY 2007
                D QUE NOS L55
                D IBIB ED ABS HITSTR L55 1-2

     FILE 'REGISTRY' ENTERED AT 16:07:52 ON 09 MAY 2007
                D STAT QUE L51

     FILE 'CAPLUS' ENTERED AT 16:08:01 ON 09 MAY 2007
                D QUE NOS L52
L56          33 SEA ABB=ON  L52 NOT L55
                D IBIB ED ABS HITSTR 1-33

     FILE 'HOME' ENTERED AT 16:08:39 ON 09 MAY 2007
                D STAT QUE L51

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